

PB-0009-1 CIP

<110> Walker, Michael G.
Volkmuth, Wayne
Klingler, Tod M.
Azimzai, Yalda

<120> POLYNUCLEOTIDES ASSOCIATED WITH CARDIAC MUSCLE FUNCTION

<130> PB-0009-1 CIP

<140> To Be Assigned

<141> Herewith

<160> 62

<170> PERL Program

<210> 1

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2045674CT1

<400> 1

```
ctgttgctcg agcccttagc aatatatacg taaacatatc cagcttgtct aacacatcac 60
agattattag ttaacaaggt gtagattaat gagcttatat tgtattgctg gatcttttga 120
gttaataaca atggtaactt gtccagaagg cctatcatca ttcctagtag gtgggcacag 180
agtaagagat attaagaagc ttcctgatga gtcacatcat agcgaaggcc ctgtgtaggg 240
ctttattata ggagttacat tgacttctgg ggcattcaaa ggtctccctt cttatccata 300
tctctgtcat tttgccacc tactaggaat gatgataggc ttttaataaca atggtaactt 360
gtccagaagg cctatcatca ttcctagtag gtgggcacag agtaagagat attaagaagc 420
ttcctgatga gtcacatcat agcgaaggcc ctgtgtaggg ctatgttata ggagttacat 480
tgacttctgg ggcattcaaa ggtctccctt cttatccata tctctgtcat tttgcttctc 540
cagccacgac aacacacttt cctctccaac tgctccctcc ccaccaaaaa agaagacctt 600
ctaaaaggca aaggaataaa tattcttaga agtaaagtat cttcatacat gctgcctttt 660
tcaaagaggt gttaggatat ttatcctatt tctgtatttc acagtagctt ttcaggctgt 720
cctgcttatg tataagctga tttctcgtgc cgaattcttg cctcgagggc caaattccct 780
atatgatcgt                                     790
```

<210> 2

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 188552CT1

<400> 2

```
ggcagagact gacatgagtc tcagtgccgg caaacacggc tggttgaacc ctgagctagc 60
ccagctgctt tggtcacctt acgtttgggg aaggctgaaa ttttattgag caccgactgt 120
attccacaca ctcttctagg tgcccgaat atgctgttaa acaaatactc agccctcatg 180
gggctgagag tctgggtggg aagacctgtt gaaaaacaat catattaaat gaattgcatt 240
gcatgttaga agatcgtaag tactctgggg gaaaatgaga gtagaacagg ataagggggg 300
```

PB-0009-1 CIP

```
gatggagggg atgagtgggtg attttaaagt tagttatcag gctgggcaca atggccttaca 360
cctgtaatcc cagcattttg gaaggccaag acgggcaggt cacttgaagt caggagtttg 420
agaccagcct ggccaacatg gtgaaaacct gtctctact 459
```

<210> 3
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 465676CT1

```
<400> 3
gtggccagag ccagccagca tggccaccct caagaggcga gatgagccca cagaggcata 60
tcctgcgggg atgctgggct cccagtgtgg ttggcctgaa caaaataaag tgttgactcc 120
tgggcatctg tgccttctct atggccttgc tacctgggat tccagagagt tgatggggtg 180
cagatagggg taggactgtt agaatagaac caacccaaac tgtgtgtagt ttggggtgta 240
tactttctatt tctcttccta catgtctaca tgccatgacc ttctctctcc tcttcacttg 300
gccagtttca gctcacttcc tccaggaagt ctttctgat atatcaaact gaaacaaatg 360
ctcctcctcc atgctccctt aatccccatg cttgtcgatt atattccttt gccaatcat 420
ttctctatcc tgtctatgta taagtgtgta caagcattca agaaactgat gaatgatgaa 480
tgaatgaatg agccaaagaa caaataaatg agcccct 517
```

<210> 4
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3601719CB1

```
<400> 4
gtttaagtcc cctccagcc ccgagccagg agcagttctc aataccggga gaggcacaga 60
gctatttcag ccacatgaaa agcatcggaa ttgagatcgc agctcagagg acaccgggag 120
ccccttccac cttccaagga gctttgtatt ctgcatctg gctgcctggg acttccctta 180
ggcagtaaac aaatacataa agcagggata agactgcatg aatatgtcga aacagccagt 240
ttccaatggt agagccatcc aggcaaatat caatattcca atgggagcct ttcggccagg 300
agcaggtcaa cccccagaa gaaaagaatg tactcctgaa gtggaggagg gtgttcctcc 360
cacctcggat gaggagaaga agccaattcc aggagcgaag aaacttccag gacctgcagt 420
caatctatcg gaaatccaga atattaaaag tgaactaaaa tatgtcccca aagctgaaca 480
gtagtaggaa gaaaaaagga ttgatgtgaa gaaataaaga ggcagaagat ggattcaata 540
gctcactaaa attttatata tttgtatgat gattgtgaac ctctgaatg cctgagactc 600
tagcagaaat ggcctgtttg tacatttata tctcttcctt ctagtgggct gtatttctta 660
ctttatcttc atttttggca cctcacagaa caaattagcc cataaattca acacctggag 720
ggtgtggttt tgaggaggga tatgatttta tggagaatga tatggcaatg tgcctaacga 780
ttttgatgaa aagtttccca agctacttcc tacagtattt tgggt 824
```

<210> 5
<211> 969
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PB-0009-1 CIP

<223> Incyte ID No: 305781CT1

<400> 5

```
ccctttttttt tttttttttt tttttttttt tttttttttt ttttttgga gtatagatta 60
tgtttatattt ctctataatt tccagggttt tccaaaattt tacaacaaac atctataatt 120
ttatgaacac tccccatctt atttttaaaa agaaaaaagt tggggggcag agaaatgcc 180
agctcagtag tgagatccat caagtgaggc cagccggtat ctgtcacacc aggcagaggc 240
cccgtgctgg aagccctgga ggtagaccgc tccaagcctg gtatccaagg cctcctgggc 300
agccttagcc tcctccttcc ctttcctccc accagaccct gctcctggga tgccttctc 360
ccattaccac cacaaaatcg gactaatttt tcagggccca acaccaattc tgctaatttt 420
tttttggtct aatcttggct catcacaacc tccgcctccc aggttcaacg gattctccca 480
cctcggcctt ctgaatagcc gggattacag gcacctgcca ccacgcctgg ctaatttttg 540
tatttttagt agagaccggg ttttgccatg ttggccacgc tgggtctcaa ctctgacct 600
caggtgatct gccgccttg gcctcccaat ctcttccat ttattagtgt gattgcttaa 660
aaaaaaaaa gactccccga tatgggcagg agcaatgctg attttttact tactgtctc 720
tagataatga attgattgtt agcctccaaa gatgatcaat ttgtttttgt tttgttttt 780
gtttcagatt acggtgaact catggactta aacttcttta tgggttttga gccactgcaa 840
ttatcctcac caaatctcaa gctgtcccac ctctggcacg tggggcctct tcaagttttc 900
ctcattcata tttgtttgtc tgtttggtgt ttttgggtgg ccagcaggag agcatccaca 960
gtctgtctc 969
```

<210> 6

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 971441CT1

<400> 6

```
aagaggtaag cgtggcctga cctagccacc caccaacagg aataatggct gaaaaagcgg 60
gggtctacatt ttcacacctt ctggttccta ttcttctcct gattggctgg attgtgggct 120
gcatcataat gatttatgtt gtcttctctt agaaaggcaa gaagatatca gattgacatc 180
attdagaaga attaagaaaa ctatgaacat gactgattat taaatgtctc atgttaaaca 240
atgcaatgtt tgacatcact ttacaaactt ggatcataaa ctggcacttt ggtatgcata 300
agaatttctt caggacaata agaaattatg agtgaatttc tctatattct gagtgagaaa 360
aatgttttagc tgtgatgaaa aatgcatgtc attaaaaaaa gtttgataaa tttaatcaca 420
ttacaaaaaa ttatcccccc ttccctctgg aaaaaactat agagaaaagt ggctgagggt 480
gtgcaagggt gctcatgcct gtaatcccag cactttgtga ggatcctttg agcccagaaa 540
ttggagacct tcctaggcga cagagagaga ccccatctct acaaaaaaaaa aaaaaaa 597
```

<210> 7

<211> 1918

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3445829CB1

<400> 7

```
cagcctgcca cttgcctccc tgctgtcttc tggtgcctt gaatgcctgg tccttcaagc 60
tccttctggg tctgacaaaag cagggaccat gtctaccttt ggctaccgaa gaggactcag 120
taaatacgaa tccatcgacg aggatgaact cctcgcctcc ctgtcagccg aggagctgaa 180
ggagctagag agagagttgg aagacattga acctgaccgc aaccttcccg tggggctaag 240
```

```

gcaaaagagc ctgacagaga aaacccccac agggacattc agcagagagg cactgatggc 300
ctattgggaa aaggagtccc aaaaactctt ggagaaggag aggctggggg aatgtggaaa 360
ggttgcagaa gacaaagagg aaagtgagga agagcttatc tttactgaaa gtaacagtga 420
ggtttctgag gaagtgtata cagaggagga ggaggaggag tcccaggagg aagaggagga 480
agaagacagt gacgaagagg aaagaacaat tgaaactgca aaagggatta atggaactgt 540
aaattatgat agtgtcaatt ctgacaactc taagccaaaag atatttataaa gtcaaataga 600
gaacataaat ttgaccaatg gcagcaatgg gaggaacaca gagtccccag ctgccattca 660
cccttgtgga aatcctacag tgattgagga cgctttggac aagattaaaa gcaatgacct 720
tgacaccaca gaagtcaatt tgaacaacat tgagaacatc acaacacaga cccttaccgc 780
ctttgctgaa gccctcaagg acaacactgt ggtgaagacg ttcagtctgg ccaacacgca 840
tgccgacgac agtgcagcca tggccattgc agagatgctc aaagtcaatg agcacatcac 900
caacgtaaac gtcgagtcca acttcataac gggaaagggg atcctggcca tcatgagagc 960
tctccagcac aacacgggtgc tcacggagct gcgtttccat aaccagaggc acatcatggg 1020
cagccagggtg gaaatggaga ttgtcaagct gctgaaggag aacacgacgc tgctgaggct 1080
gggataccat tttgaactcc caggaccaag aatgagcatg acgagcattt tgacaagaaa 1140
tatggataaa cagaggcaaa aacgtttgca ggagcaaaaa cagcaggagg gatacgatgg 1200
aggacccaat cttaggacca aagtctggca aagaggaaca cctagctctt caccttatgt 1260
atctcccagg cactcaccct ggtcatcccc aaaactcccc aaaaaagtcc agactgtgag 1320
gagcgcctct ctgtctcctg tggccacacc tctcctcctc cccctcctc cctcctcctc 1380
ccctccttct tcccaaaggc tgccaccacc tctcctcctc cccctcctc cactcccaga 1440
gaaaaagctc attaccagaa acattgcaga agtcatcaaa caacaggaga gtgcccacg 1500
ggcattacaa aatggacaaa aaaagaaaaa agggaaaaag gtcaagaaac agccaaacag 1560
tattctaaag gaaataaaaa attctctgag gtcagtgcac gagaagaaaa tggaagacag 1620
ttcccgacct tctacccacc agagatcagc tcattgagaat ctcatgggag caattcgggg 1680
aagcagcata aaacagctaa agcgggtaag taaccagaga acagacatag gggcacagat 1740
aaagtaaatg agttgtctc cattgcatgg ttgtaccaa gtcacctctc acaatactta 1800
tcaatacttt caatatttta gtatgcgaga gcaaacacac caagtttgaa acattaggag 1860
caggcacaca agtgagcaca tttctatttg agaggaacgc ctgggccgct ttcccagg 1918

```

<210> 8

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 189299CT1

<400> 8

```

gtcaagctct acctgagcga caaccacctc aatagcctgc ctccggagct ggggcagcta 60
cagaacctgc agattctggc cttggatttc aacaacttca aggtctctgc ccagggtggtg 120
tgcaccttga aacagctctg catcctctac ctgggcaaca acaaactctg cgacctcccc 180
agtgagctga gctgtctcca gaacctcagg accctgtgga tcgaggccaa ctgcctcacc 240
cagctgccgg atgtggtctg tgagctgagt ctcttaaga ctctgcatgc cggctccaac 300
gccctgcgtt tgctgccagg ccagctccgg cgcctccagg agctgaggac catctggctc 360
tcgggcaacc ggctaactga ctttcccact gtgctgcttc acatgccctt cctggagggtg 420
attgatgtgg actggaacag catccgttac ttccccagcc tggcgccacct gtcaagtctg 480
aagctggtca tctatgacca caatccttgc aggaacgcac ccaaggtggc caaaggtgtg 540
cgccgtgtgg ggagatgggc agaggagacg ccagagcccg accctagaaa agccaggcgc 600
tatgcgttgg tcagagagga aagccaggag ctacaggcac cagtcctct acttctcct 660
accaactcct gaggagcttc agttgcaagt caatgccaaag gacccaactg cagcatgttc 720
tggaagcctc tccattggag tggaaaggat ggctctgggt catttgggag tggctctgct 780
agtagagact gatggagaga gccaggtgga atgccataaa tcacactgag aaaatatttc 840
tggcaaacag ctctctcttc agaggggagt tgtgtgcccc atgatggcat gacaaatcca 900
gagatcataa ctctctttgc gaagaagaac agctcgtcca cagcattgta tttttggaga 960
cacttgaaag agccaaaaga ggggcttggg aaacatcctg aaacctccct ggaagtctct 1020

```

PB-0009-1 CIP

caggaaatth gacttgggca ttggaggctc cattgggctc cttccaatta aggggtgtt 1079

<210> 9

<211> 1028

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2396760CT1

<400> 9

gtactgactc	actataggga	atttgcgcct	cgaggcaaga	attcggcacg	aggggtgtt	60
accaggacaa	cggagcgat	tgaccgttat	ctgcggtttg	gagccgttag	cgggagagggc	120
agagatatth	agaggctctt	taggatgtgc	taaagggctc	tgagggctct	cttaaaatth	180
tcttcacaag	cggttatcca	gtcgtgcccc	gcggccctgc	tgctggcccc	ggggatctga	240
gtcgtaccct	cttgtttttc	tctgagtcag	tcttaagggtg	aaatgaagtg	tggcccagtg	300
gtcctcactc	gtcgtctctc	tagttttctg	cctcctttta	gaaaattgaa	ttgaaaagac	360
aggatgaagt	ggacacagca	tgtgaagaca	attcctttcaa	gaagtttggc	tgtcaaggaa	420
aacagagaa	gtgctaaaga	acatacagac	acagagcaga	caggccacct	ttgcaaccac	480
atggaggtht	gtctgatatt	gaagctaaag	aagctaagct	ggaagacaga	gagaccaagt	540
cctgatgaca	ttgthtgaac	ccagagatcc	agacatgcct	gaaaactagt	tttaccactg	600
gacttatccg	ttgaatgagc	caataaaactc	tctttttatac	ttaaccttgg	gtttttacctg	660
gatttttgtc	attgacagct	caaaatattc	taatatagaa	gtatacatca	ttaaatcaac	720
atttcttttt	ttctctgtct	tattttaaat	gtaactctat	aagggtactct	aaaagtattc	780
tacagtctca	ctaagthaat	ctgcaaattt	ggtaaaattc	caatattaat	cccaaaagta	840
ttttaagagc	ttgtttttgt	tgthtgcctg	tttgggacta	aacagaatta	ctccaaaatt	900
cattgagaga	aaaaaaaaaac	atgaaaaaaaa	aaacaagaaa	atagaattca	taaaaggaaa	960
ttgtattata	taacaaagca	taaaacaaga	ataataaaca	tagagtggta	atggaataaa	1020
tagaacac						1028

<210> 10

<211> 1149

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 919893CT1

<400> 10

tcgtttctcac	tgagcacgat	attaggctct	ctcccaactc	actctattct	gtcctcactc	60
ctgtttttgat	ttttctcttg	ccatgtttga	aatgtttttat	gggaatgtat	tagaactctt	120
ttctttctaag	gactgagact	tccaggggat	tgccatctta	cctgtctctt	ctccatgagg	180
gagaaggaag	cagctagcta	tgtccctagc	tgcaggaagc	ccctattttt	tccaagcacg	240
aagccaccag	tctccccccag	ggagcatcag	gaaggggacat	ggatgtgctc	ctgccacagg	300
gcccttctcta	ccttttggatc	tgtgagaagg	tgaatacaaaa	gcagcaggca	gagtaaaatc	360
tgctgggact	gcctggagat	ttgtcaggag	ctgcagacaaa	gtaccttgga	gcattctgtt	420
atttttggaa	agttcaaata	tgcagggaca	aggaggttgc	tgactgtact	gacaggctct	480
aagtcatttt	ctccaaaaaac	tatctattca	attatcaggg	gctggtcttg	aggaaggaaa	540
aaaaaaaaaaa	acgttcccag	aattcagttt	ccaaaaatctc	tttttaagg	gttttacacac	600
acacacacac	acacacacac	acacacacac	acacacacac	gatcattaaa	aagtgtatgc	660
tctttaagaa	gaaaagtaaa	atatctcaaa	ggacggtttc	accaccgtcc	tttattgaat	720
caatttttct	acatttcaga	gcaagtgtag	attctgaggg	actcctattt	gccaaaaaga	780
caaaactagc	aaaaaaaaaaa	acaaaaaaac	aaaaaaaaaaa	ccacttaaaa	ggtagcagga	840
aaagaaggta	gttttgagtg	tggttcactc	agtgctctgtg	agtgctgggtg	agtgctcagga	900

PB-0009-1 CIP

```
gtaaggccgt gtctagctca agtttacatt tggatgtcct acaacactaa acaaaatttt 960
tcataatcca tgggtggggag cacacttttg agctacattt cttgtctcct cattgttgac 1020
attaattaaa catttatagg ccaggcacag tggctcacgc ctgttatccc agcacttttg 1080
gaggccgagg caggtgaatc acctgaggtc aggagtttga aaccagcctg gccaatatgg 1140
tgaaaccca                                     1149
```

<210> 11

<211> 1467

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2837330CB1

<400> 11

```
ctaaggctta tagattgcca gcctgctcag cgtctctaac ccttttcagg tctctgctgg 60
tggttctgaa gccaaacctc tgatcttcac atttgtcccc actgtcagaa gactaccaac 120
ccatactcag ttggctgaca cctctaaatt ccttggttaa attccagaag aatcaagtga 180
taagagtcca gaaactgtaa ataggtctaa atccaatgac tacttgacct tgaatgctgg 240
gagccaacaa gagagagacc aagcgaaatt gacttgtcct tcagagggtca gtggaacgat 300
tttacaagaa agggaattcg aagcaaacaa acttcaaggg atgcagcaaa gtgacctctt 360
caaagctgaa tatgtcctta ttgtggactc gcaccgcagc tgccggccc aagtctctag 420
agttgaacaa ggccccccag gggggaattg gcaccgcagc tgccggccc aagtctctag 480
ctatctcgtc cagtctggtc tctgatgtag tgcgtcccaa aacacagggg actgatctca 540
agacctcatc acatcctgaa atgcttcatg ggatggcccc tcagcaaaag catgggcagc 600
aatacaagac caagtcaagc tacaaggctt ttgcagcatt ccttacaac acattgcttt 660
tggaacagaa gactcctaca actcttccaa gagcagctgg tcgagaaacc aaatatgcaa 720
atctctcctc accaacttct acagtatctg agagtcagct gactaagcct ggagtaattc 780
gcccagtacc tgtaaaatcc agaataattac tgaaaaaaga ggaggaagtc tatgaaccca 840
accctttcag taaatacttg gaagataaca ggcacctctt ttctgaacag gatgtaacag 900
tccctcccaa gcctgtctcg ctccatcctt tatatcagac taaactctat cctcctgcta 960
agtcactgct gcatccacag accctctcac atgctgactg tcttgcccc ggaccttca 1020
gtcatctgtc cttctccttg agtgatgaac aggagaattc tcacacctc ctcagtcaca 1080
acgcatgcaa caagctgagt catccaatgg tggctattcc tgaacatgaa gctcttgatt 1140
ccaaagagca atgaagtgg agcagaggct gaaaacacag gctgctgaag ttttttgga 1200
tgctggtgct aaccacttgc tagatttaac tttttttttt tttccagaa tgagtgtcc 1260
ctttatgagt gcagtgcagc agaaccaaaa aaaaagtttg ctgcaattat atagcatcac 1320
agtgtctgtc taacagccag catagaagag atttacctac agctttttgc accactgttc 1380
tagcctttaa tgccttctac ttaatatata gctgaccgca atactaacgt gccctatat 1440
ttggcagcca aataaagaag aatcgtg                                     1467
```

<210> 12

<211> 1691

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737459CB1

<400> 12

```
cggctcgagg agaaagaggt ttttaaattc tccatgaagt gtactatggt ccatcattcc 60
ttcccaaagc caccggaagc attccttcta ggaaaggtagt gagaagccgg 120
aggtagaag acccctgagc ggatggattc attcattttc tgaatttcct atgtgaggac 180
agtattagag cccagtgagg ctttgagagg ccccaaagat gagcgccaac agtagcagag 240
```

```

tgggccagct tctcttgca ggttcagcgt gcattaggtg gaagcaggat gtggaagggg 300
ctatctacca cctagccaac tgcctcttac tccctgggctt catggggggc agtgggggtgt 360
atggatgctt ctatcttttt ggcttcctga gtgcagggtta cctgtgctgc gtgctgtggg 420
gctgggttcag tgctgtggc ctggacattg ttctttggag ctctctgctg gctgtggtct 480
gcctgctcca gctggcacac ctggtatacc gtctgcgtga ggacaccctc cctgaggagt 540
ttgacctcct ctacaagacg ctgtgcctgc ccttgccagg gcccctacag acatacaagg 600
agattgttca ctgctgtgag gagcagggtct taactctggc cactgaacag acctatgctg 660
tggagggtga gacacccatc aaccgcctgt ccctgctgct ctctggccgg gtctgtgtga 720
gccaggatgg gcagtttctg cactacatct ttccatacca gttcatggac tctcctgagt 780
gggaatcact acagccttct gaggaggggg tgttccagggt cactctgact gctgagacct 840
catgtagcta ctttctctgg ccccgaaaaa gtctccatct tcttctgacc aaagagcgat 900
acatctcctg cctcttctcg gctctgctgg gatatgacat ctccggagaag ctctacactc 960
tcaatgacaa gctctttgct aagtttgggc tgcgctttga catccgcctt cccagcctct 1020
accatgtcct gggctccact gctgcagatg ctggaccaga gtccgagaag ggtgatgagg 1080
aagtctgtga gccagctgtg tcccctcctc agggccacac cactctctc cagcaaacac 1140
ccccttgctt taccctcca gctaccacca actttcctgc acctcctacc cgggccagggt 1200
tgtccaggcc agacagtggc atactggctt ctagaattcc tctccagagc tactctcaag 1260
ttatatccag gggacaggcc ctttggctc caaccacac gcctgaactt taaggatcat 1320
tggactatct tctctgtggc cagcgcagct ctcttctgtg ttacagaat ggccactgat 1380
aggcacgcct ctttccac cactggaag gctcacaggc aagggtgagag aggacacaga 1440
aggtgccaac actgtcgcta cagtaaggac ctgaagtgc tttgagaaat tcacctcac 1500
aaaccttctt tcaggagcag gcattggtag tgcagaggca cagattccgt cctttaccag 1560
ctgcagaatc ttgggcaagt tacatagcct ctgtgagcct catcggtaaa cagtgggggt 1620
tatgaaaccc acctcacagg gttgtgtgta ggatccaatg agttgattta ggtaagcacc 1680
tagcacatgc c

```

<210> 13

<211> 2379

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 058201CB1

<400> 13

```

cccaggatct gctctgaaac caggtctcta agtgaacatt tctcaggcat ggatgcattt 60
gagagtcaaa ttgttgagtc gaagatgaaa acctcttcat cacatagctc agaagctggc 120
aaatctggct gtgacttcaa gcatgcccc ccaacctatg aggatgtcat tgctggacat 180
attttagata tctctgattc acctaaagaa gtaagaaaaa attttcaaaa gacgtggcaa 240
gagagtggaa gagtttttaa aggcctggga tatgcaaccg cagatgcttc tgcaacatga 300
gatgagaacc accttccaag aggaatctgc atttataagt gaagctgctg ctccaagaca 360
aggaaatatg tatactttgt caaaagacag tttatccaat ggagtgccta gtggcagaca 420
agcagaatth tcataagtcc tgcttccgat gccaccattg caacagtaaa ctaagtttgg 480
gaaattatgc atcacttcat ggacaaatat actgtaaacc tcactttaaa caacttttca 540
aatccaaagg aaattatgat gaaggttttg gacataagca gcataaagat agatggaaact 600
gcaaaaacca aagcagatca gtggacttta ttccaatga agaaccaaat atgtgtaaaa 660
atattgcaga aaacaccctt gtacctggag atcgtaatga acatttagat gctggtaaca 720
gtgaagggca aaggaatgat ttgagaaaa taggggaaa gggaaaatta aaagtcattt 780
ggcctccttc caaggagatc cctaagaaaa ccttaccctt tgagggaagag ctcaaaatga 840
gtaaacctaa gtggccacct gaaatgacaa ccctgctatc ccctgaattt aaaagtgaat 900
ctctgctaga agatgttaga actccagaaa ataaaggaca aagacaagat cactttccat 960
ttttgcagcc ttatctacag tccaccatg tttgtcagaa agaggatgtt ataggaatca 1020
aagaaatgaa aatgcctgaa ggaagaaaag atgaaaagaa ggaaggagg aagaatgtgc 1080
aagataggcc gagtgaagct gaagacacaa agagtaacag gaaaagtgtc atggatctta 1140
atgacaacaa taatgtgatt gtgcagagtg ctgaaaaggaa gaaaaatgaa aaaactaacc 1200

```

```

aaactaatgg tgcagaagtt ttacagggtta ctaacactga tgatgagatg atgccagaaa 1260
atcataaaga aaatttgaat aagaataata ataacaatta tgtagcagtc tcatatctga 1320
ataattgcag gcagaagaca tctatttttag aatttcttga tctattaccc ttgtcgagt 1380
aagcaaatga cactgcaaat gaatatgaaa ttgagaagtt agaaaatata tctagaatct 1440
cagagttact tggatatatt gaacttgaaa agacttattc gaggaatgta cttagcaatgg 1500
ctctgaagaa acagactgac agagcagctg ctggcagtc cctgacagcct gctccaaaac 1560
caagcctcag cagaggcctt atggtaaagg ggggaagttc aatcatctct cctgatacaa 1620
atctcttaaa cattaaagga agccattcaa agagcaaaaa tttacacttt ttcttttcta 1680
acaccgtgaa aatcactgca ttttccaaga aaaatgagaa ctttttcaat tgtgatttaa 1740
tagattctgt agatcaaatt aaaaatatgc catgcttgga ttttaaggga tttggaaagg 1800
atgttaaacc ttggcatgtt gaaacaacag aagctgcccg caataatgaa aacacaggtt 1860
ttgatgctct gagccatgaa tgtacagcta agcctttgtt tcccagagtg gaggtgcagt 1920
cagaacaact cacggtggaa gagcagatta aaagaaacag gtgctacagt gacactgagt 1980
aaaatatcta tggccactga cagtccacac ttaggcactg agagatattg atgttctgaa 2040
ataagatttt atgaatttgg ataccctttt gaggaacttg atgtaaacat ggtgttcaga 2100
aatctcgtgt ctatctcaat gggatatttc ttgtattaca ccttgtcatt tttttcaca 2160
tttatttaca tctacttttg tttgaactgg aatgaagaga tgaaacacta tggatatgtt 2220
ttccattcaa atggcacttt agcatattgt tctgttttcc tgtaaaacat catgggtgtg 2280
atttttatac tgctgctgct tgtcacaatt attataactt ctctgtaatt tctctgaaa 2340
taaaattgaa tcacctgagg tgcaaaccaa aaaaaaaaaa 2379

```

<210> 14

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 767447CT1

<400> 14

```

atgaatacaa atcgctcaga aagcattttg gtggcacaga aaggggatgt atttgtgttg 60
agatcttatt ttatttttga tttattttat ttctttgact tgcacagcac tattgggggt 120
gggggaagca gggtagtggg agacgaaggc agaagcaaga gtcaaaactca gaatgactga 180
gttgaattca ctgtctagtc agcaatgcct gcttctgagt ttggcccaga gagaagggtat 240
tgagtaagat ttaataaact gtaaaaagta agctggataa gtaaaatcat gatggatcca 300
aagcacagtt tcttcatctc ctgataaaga aagtcaaatg cttgataaat tcagagtcac 360
agatgtgagc atagctatat tctttttaaac gagaggtaga gtgacctagc actaagcaaa 420
tgagctgaaa tgtcggaaac agagtccatc agcttatttg gccacacgat cccaaactag 480
ttttatcttg ggaaatggcc ctgtcctcag cattcccttc ttgtgctggg ggggccagt 540
aagtcttgat cttatcagaa aaaggccaca ccaagtgcga gttttccag gctgactttc 600
caggecccta tcaaatgaaa caacagaagc tcttcacagt tctgtgcccc atggccactc 660
cacagacaga caataccaag catcttagaa ctgtcataag atagggtcatg cctgaaatag 720
atcttgacca tatgagagtc ccagaaatca gcaaggcctg gacaaataga actaagagag 780
aggcagaggc aggaagctgc ggggtctatc tgtaaagagt ttagcatcac tgtgagagt 840
tgtgtctaaa attaaattaa actagaagca gcaggtgagt atttggttag tacttctgtg 900
actgcctcca attcccactg gccagggggc atctcaactg cacgggtgaat caagatgctg 960
gtgtcatcct ccttggaaaa aggaaatgtt aactcatggt taaaactaag tacaatgatt 1020
cccaagggat cactttctta tttttttaa tgacattaag gagaatctta agaaagcatc 1080
agagaaagac atgtgcatgt gaagcaccct gattctgatg ttaggaaaac ttaagcgaac 1140
aggacctgct gcacacagcc ccattgtctt ctatccattt ctctttatca ttcaaataca 1200
gcaacatgtg cctcctcat caacacacat tcttcccctt tgtcagtatg catctcccag 1260
cttagtgtca ggatactttc gattcataat tatgtatgat ccaaagtgtg cataatttca 1320
tttaacgtta aagaaataga tccaattcct ttcttgcaac caaaaataaa taaaatacgt 1380
tgectcaata taaggtttgg gctattctgt gtttctatag aagcaatctg tttttggtaa 1440
aatgtacttt taaggatcca gtcactgtaa gtattttatg tagagttaga gatttcacaa 1500

```


PB-0009-1 CIP

tattgactat	acatatat	aaaatata	ttatccagct	gatgtttgaa	tttgtcttac	1560
tttcttgccc	acctcgtt	cctatttt	aagctgggga	gttaactagc	ttaacaaaag	1620
atgcttagct	tttgtaaa	aacaagtgt	tcattttt	aagacactcc	aaatgatagt	1680
tacttgattt	tctcgagacc	tttaactat	gtgatgaata	acaggacttg	ctttcaagcc	1740
ttaataaatg	taaaatgcct	tttaatgaag	atacagctga	gtgttttcct	catgaatctg	1800
aaccaattac	caatttgtgt	tccagtcttg	attgggtatt	actgattcaa	ataaagttgg	1860
tttattttca	aatattaaaa	aaaaaaaa	aaaaaaaa	aaaa		1904

<210> 15

<211> 968

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5449893CB1

<400> 15

gaatccaggg	gaaggggatgg	aagaggaaga	aaaacaagct	tggagcagtc	caaccagct	60
agggccctcc	attccctcag	ggacacccca	cacccacccc	acacactggg	atgaaccctt	120
gcagaggaac	aattcagatg	gtcacacatt	ccaggaccca	aatccgtaaa	cacaaagcat	180
gtccgtcagt	gccagcacct	ccccccggct	aatcaagcag	ctgtcccaga	gggcaaaggg	240
tctctgcagc	catctgcttt	catcagggct	gcagccccc	ggcagcagta	ctgggagccc	300
ctctcatctc	cgagaataaa	ctctgaagcc	agcgacctg	cggacctgaa	tcatcaggga	360
gcctgtcaga	ggagggggcag	tgactctgcg	ggacaagcaa	gcaggctata	taagtttcag	420
aaggctgggc	tccactcaga	tcttttccag	cagctgctgc	ctgccagaga	ggcgccttca	480
gagaccagc	gcttacacaa	taccacccat	gtcccaggct	ggtgctcagg	aagcccctat	540
caagaagaag	cgccccctg	tgaaggagga	ggacctgaag	ggggcccgag	gaaacctgac	600
caagaaccag	gaaatcaagt	ccaagacct	ccaggctcat	cgagagtgtg	agcaagctgg	660
ctcggccgcc	ccgtcgtgtg	tcagccgcac	ccgcacaggt	accgagactg	tctttgagaa	720
gccccaaagc	ggaccaccca	agagtgtctt	cggttgagaa	gtgtgcgcca	ctccccttgc	780
tgcccgaatg	ctcggaacaa	ggagccttac	ccaggaaact	ttttttatgc	cagaacgctt	840
cctctccctt	gctgtctctg	gggctgccac	cctccccac	agtccaggcc	cttcagccaa	900
gggctctgca	ccagcacctt	ggaagcacca	ataaagagga	tgcccacgtg	gccccagcaa	960
aaaaaaaa						968

<210> 16

<211> 1112

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2951269CT1

<400> 16

gaggcaagaa	ttcggcacga	agggtagacc	tcacagggtgc	ataaaatcat	taataaagca	60
tgtagcactt	gctaattggt	gccttaagct	tgaatcta	cagaattgca	gactcgggtc	120
ctctgggaaa	aaaacatgtc	cgtctgtggc	acgtgtgagt	actaggccca	ggggaagagt	180
ctgaaaattg	aattcttttg	tgtgtcctgt	gtctcagaag	agaactgaat	gttcagagca	240
gcgtttgtaa	gctattaaca	ttcagtattt	cgtgttgcaa	ctagaacaca	ttattagatt	300
tattcctggt	taattcataa	tggtgcagaa	taaaacacac	acatctgatt	tgatttcttt	360
ttcttttttt	aagtttcata	attgcttttt	atggctagt	ttaatggcaa	aaagtccttt	420
ccagggtctc	ctgaataatc	taccatacct	gtatccatag	cagggtgatgc	ttttttttat	480
ccccactttg	aagacgtgtg	tttctgtatt	tacacataaa	tcatactatt	gtatatttaa	540
gacagcagtg	gttgaaga	atgtgaacac	tgtagaagtt	atgttgga	aaaggagagt	600

PB-0009-1 CIP

```
aaattgtgtg attaatgggg aaggatattg gataatgtta taccccggac tatgaaaaaa 660
gctgggtggt aatgggaaga atgtgaaatt ttaaactgct ctcaacgtag gaatcttggg 720
ggaaaagttc ctacctgagg tctgatatga ttcaattata gaatgcaatg agcttggcca 780
aggggacttt gaatccagcc aaggaaactt tgaatctcga cagctctgag aatcacattt 840
tcagtgcatt gaatatggag taaactatct agacaaggat tctgtgagac taggctactt 900
acctttaatt gccagcattt gtaaattgatt gtgcaatctt gtgtaattgg cttttatttt 960
gactgttttg gaaaaaaaaa gttttattgt ttttttttcc cagtaaaaat tacttcaaag 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggcg gccgcaagct tattcccttt 1080
agtgagggtt aatttttagct tgcacttgcc gt 1112
```

<210> 17

<211> 1714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282977CB1

<400> 17

```
ggaaagtgga agttggattc tgaaagatcg aggtgcccac aggaatttta tggtcgtcgg 60
attttgaaga cttgaactag actggggggt ctccttgcat ttcttgccctg ttgcctatct 120
ttgtcctctc tcttcgggct tcgagatgaa tgtgcagccc tgttctagggt gtgggtatgg 180
ggtttatcct gccgagaaga tcagctgtat agatcagata tggcataaag cctgttttca 240
ctgtgaagtt tgcaagatga tgctgtctgt taataacttt gtgagtcacc agaaaaagcc 300
gtactgtcac gcccataacc ctaagaacaa cactttcacc agtgtctatc acactccatt 360
aaacctaagt gtgaggacat ttccagaggg catcagtggtg atccatgacc aagaagatgg 420
tgaacagtgt aaatcagttt ttcatgtgga catgaaatcc aaggataagg aaggtgcacc 480
taacaggcag ccactggcaa atgagagagc ctattgggact ggatatgggg aagggaatgc 540
ttggtgcccc ggagctctgc cagacccccga aattgtaagg atggttgagg ctcgaaagtc 600
tcttggtgag gaatatacag aagactatga gcaaccaggg ggcaagggga gctttccagc 660
catgacaca cctgcttatc aaagggccaa gaaagccaac cagctggcca gccaaagtga 720
gtataagaga gggcatgatg aacgcattct caggttctcc acggtggcgg atactcctga 780
gctgctacgg agcaaggctg gggcacagct tcaaagtgat gtgagataca cagaggacta 840
tgaacaacaa agaggggaaag gcagtttccc tgcgatgatc acaccgcctc atcagatagc 900
caaaagagcc aatgagctgg caagtgatgt gaggtaccat caacaatatc aaaaagaaat 960
gaggggaatg gctggtccag ccattggagc tgagggcatc ttgacaaggg aatgtgcaga 1020
ccaatatggc catggttacc cggaggagta ttaggagcac aggggacagg gcagcttccc 1080
agctatgatc actccagcat atcagaacgc caagaaagct cacgaactcg ctagtgacat 1140
aaatacaggc cggacttcaa taagatgaaa ggcactgcac attatcactc gcttccagct 1200
caagacaact tggttctcaa acgggctcag agcgtaaaaca aactcgtgag tgagaataaa 1260
tataaagaaa actaccagaa ccacatgaga ggccgctatg aaggagttgg tatggacaga 1320
cgcactctgc atgctatgaa agttggcagc ctggcaagca acggttgcta caaagctgat 1380
tataaacatg atattgtcga ctacaactac ccagccactc tcacgccttc ctatcaaaca 1440
gctatgaaac tgggtgccctt gaaagatgcc aattataggc agagcatcga caagttgaag 1500
tacagctcgg tgactgacac cccacagatt gttcaagcca aaatcaatgc ccagcagctg 1560
agtcattgtg attaccgtgc tgactatgag aaaaataagt tgaattacac attgccccag 1620
gatgttcttc agctggtgaa ggccaaaacc aatgccaaac tcttcagtga ggttaagtat 1680
aaagaaggct gggagaagac aaaggggaaa ggat 1714
```

<210> 18

<211> 806

<212> DNA

<213> Homo sapiens

<220>

PB-0009-1 CIP

<221> misc_feature

<223> Incyte ID No: 3178454CB1

<400> 18

```
acttgtctca gtctggatca gactcaagtt gctctccaga atgcctctgg gaggaaggca 60
aagaagttat cccaactttc tttagtacca tgaacacaag ctttagtgac attgaacttc 120
tggaagacag tggcattccc acagaagcat tcttggcatc atgttgtgct gtggttccag 180
tattagacaa acttggccct acagtgtttg ctctgtttaa gatggatctt gttgaaaata 240
ttaagaaagt aaatcagaag tatataacca acaaagaaga gtttaccact ctccagaaga 300
tagtgctgca cgaaagtggag gcggatgtag ccaggttag gaactcagcg actgaagccc 360
tcttgtggct gaagagaggt ctcaaat tgaagggatt tttgacagaa gtgaaaaatg 420
gggaaaagga tatccagaca gccctgaata acgcatatgg taaaacattg cggcaacacc 480
atggctgggt agttcgaggg gtttttgcgt tagctttaag ggcaactcca tcctatgaag 540
attttgtggc cgcgttaacc gtaaaggaag gtgaccaccg gaaagaagct ttcagtattg 600
ggatgcagag ggacctcagc ctttacctcc ctgccatgaa gaagcagatg gccatactgg 660
acgctttata agaggtccat gggctggaat ctgatgaggt tgtatgatgg ctgctgggca 720
gcacctccta acttcaggga ataaagtgtc aaagtgtaaa aaaaaataaa aataaaaaata 780
aataaataaa taaaattaaa aaaaat 806
```

<210> 19

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3563859CT1

<400> 19

```
gccagacacc tgagccgact ggtagtaggg gcagccgtgt ggcgggggagc cggccggggcc 60
ttcctgctca tcgaggacct gactggctcc tgcttcgagc cactgcccc a gggctctgctg 120
ctccacgagc tgcctgaccg ccgagctgc ctggcagccg gccaccagtg gcgaggctac 180
accgtctcct cccacacctt cctgctcacc ttttgcctgcc tgctcatggc agaggaagca 240
gctgtgttcg ccaagtacct ggcccatggg ctctctgccg gcgccccact gcgccttgctc 300
ttcctgctga acgtgctgct gctgggcttc tggaaacttct tgctgctctg taccgtcatc 360
tatttccacc agtacactca caagtggtg ggccgcccag tgggcacctt tgcttggtac 420
ctcacctatg gcagctggta tcacagccc tggctctccag ggagcccagg ccatgggctc 480
ttcccccgctc cccactccag ccgcaagcat aactgaaaga aataaaaacc atcgggcctg 540
aaaaaaaaaa aaaaaa 555
```

<210> 20

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 985730CT1

<400> 20

```
taagatctac tcaaagtact tcaaacaaaa aataaataat tcattggctc atgtatcttg 60
gccacccagg gaaggtctga cattgttagt tagatccaga gtttcaaata tcatcaccat 120
ggatgtgtct ttttctctct ctcat tccccatatt cttgtctttt atttattata 180
ggtttgtctc attccctggc aggctctctc cctgtgatag gaaagagagt cccagcagc 240
cccaggtgta catagtgtgt atagtgcatt atggaataga agagagaaga gcattctcaa 300
taacccggca aagttcccag ggatgactct gatatgtcta tgtctcaggt cacatttcca 360
```

PB-0009-1 CIP

```
tctatgaacc aatcatattc agaggtggaa tgctaattgg ccaggcctgg gtcatatata 420
caagtctagg gaagaaatga gcttcatccc tgtccaattg acatggactg attaggggta 480
ttaatggaag aggtgtgcca ccacaaaaga atgtaccatg ggcagatcaa agaacatatt 540
ctgtatgtca ggcttggcac aaaagaatga cacaagtaat atgctgtaga tcagaacctc 600
tctgctaata ttgccttttt agcatgggta agatagctaa gatctagtag tgctactcca 660
gtatgtccca attctaccta cgtttattga aggggtcaaca gttctgatct cagcattggg 720
taaaggggtg gacattcaga ttacgggtcc ttgataaaaa caatttataa cgttccgttg 780
tgtaataaat gtaagtgtac atatgcctgg gacatcagct ggaaaaggga cagactatca 840
gagagtgtga ctgttgcggt atgggccaata tccaacataa taccgcgtgt acctctagag 900
aactaaaacc ttaatttctc agatcttttc tgcactaatg gtctttacat acagcctaca 960
ttttaactaa ctcttgcatt ggcttgtttc acagcaggaa actatattca tcatatcctt 1020
attatgatag agaatgacaa cattcaaaaag ggtgtgggtg ttctgaaaat atacacaata 1080
aatggcatga tttgaaaaaa aaaaaaaaaa aaagatcggc gcaagcttat tccctttagt 1140
gagggttaat tttagtga 1159
```

<210> 21

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3684987CT1

<400> 21

```
gtggcatcca ccattaaggt taagtgtggt gtgccctgtg agtctgaatg tctacttaag 60
aaccttaagt agacattaag aaccttaaga aggttttttg tttgtttttg tttttttgtt 120
gttgagatgg agccttgctc cgttgcccag gctggagagc agtggcgcaa tctcagctca 180
ctgcaacctc tgccctccag gttcaagcaa ttctcctgtc tcagcctccc gagtagctgg 240
gactgcaggc gctgcccccc aagcccggct aattttttgt ttttttagtag aaatgggggt 300
tcaccttggt ggtcaggctt gtctcaaaact cctgacctca ggtgatccac ccacctcggc 360
ctcccaaagt gctgggatta caggcatgag ccaccatgcc tagccacaa actcttacca 420
ttcttaaatg tatttatttc agttcctctt ccactactat attataacct accctggcag 480
tccttctcat ctgctgcaat atttcccatt ccttaagatc taacctatgc tgctccttct 540
ccatgaggct ttttctcatt aattcatgca cactgatctc tcccttctct gcattcctgt 600
catacatcat tatttcataa ttattttgca tgtgtgttac tttttctttt cagccacatt 660
cataagtctc tggggaaaga aattaggctt tcatgatttt gtatccttat cctacacccg 720
gcaaagtgtc gagtatacag taaattctca aaggctttat gtcttcttca atcgaaaaat 780
ttacacttga agaaatttgt cttgtagcct atgaagtcaa acagtacat taggaaacaa 840
taatcaagac tccatgacct aaccatgtta tattatta 878
```

<210> 22

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 986166CT1

<400> 22

```
gcgttcagga gacagtcacg gtactcgttt ccagacagaa gtcattgagga acaagaggga 60
aggtgctttc ccgtgtgcag cgcttgggga gactcacaca gacagaggat ctggcatgac 120
agggaaagga ggaaatggct tctgttaatc tctccttcag cttctcccg ccttcccatg 180
cactcttcct gtttcccttt ccagttctca cggtgactca aggaacaacg tgtgaaatga 240
aagacctcag gtgctgtatt ggctcttgac agctcttcag aagaaaatac ctccctgcctg 300
```

PB-0009-1 CIP

```
ttctgttcag tcttgggtgca gcttccagga agccaaatga cccaccggct taccacatc 360
gcaggaagct ttggagcaga gtcagtgact atgtgaacct gcctcaacct ctgctccctg 420
gttcagcatt tggcttggga aaaatgacac tatttctgt ctcttaaca ttatttcaag 480
gcacaggctc tccaccattc tgagaggcag ggggatcttt gagttctgcc aggagctggg 540
ggttagggtt aggggaatcc cgcccaaggg aaatgactag aatctttgtc aggctgtgga 600
acacaggcat tctggatagg tggctccctt gtggctctcc ctggaatcta catgcaaata 660
cctgtat 667
```

<210> 23

<211> 1421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1887508CT1

<400> 23

```
tgatcagtga tatcaaacat caggaatcag cctttatgta acataacagc tgtcctccta 60
tgggtgaaagg ttcaaatgta gtgaaggat aacctatatt gactgagatt tcccttttag 120
gtagtgcctt atctctatta ctagtgttaa aggaataagg aatctatgaa ggacagggag 180
cagctctggt ctgtcaatct cagccacctg ttgatataca cagagaagat actcggagga 240
ttgttgggaat gtatatagtt tagtaagaag tgggtaagaa agagggtctt aattactgag 300
cacttattat gtattagggt ctttgccaga tgtttttaca tatataaact catttcagaa 360
aacttattta aagtaaatgg ggccgggtat ggtggttcat gcctggaatc ctagcacttt 420
gggaggctga ggtaggagga ctgcttgagg ccgggagttg gagaccagcc tgagcaacat 480
agtgagacct tgtctcaata ataataataa taataataat agtaataatg aagtaaatgg 540
gataaggaaa gaaggataat tatctttaaa ggttgattcc caccctccct cccaggttac 600
ttaaggaaact aagtgagtac atctccagtt gcccatgaaa gcataagttt gttttcctca 660
gctgaggcaa gtggtagagt atacaggata acgaagtaac atgtaaaagg caggacgcac 720
ataaagggtg acatggctat tgtttcacct ggagaaacca catgattggg acctgaaggt 780
ttactgactg actacagggg ctgattgtga agcacgagga accccatgtg tgtggagact 840
gtagggtgag agcacacaat tattagcatc atttctgagt gatctcacag atttttttct 900
ttgtgtttgt tttgcttttt gacaactgct tctccacgt tccctgcaat totattctct 960
caccttcaat ttactatttg tattcgatgg accaggataa ttcaggcaag gttaccttgt 1020
aaacttgaat tggccacaca ccatgttgct acccagctgg ctatgaagtg aataatggta 1080
ctgaaagtaa acctgaagac ctttctcaga tctattttta gtctgagctc gaccaaccat 1140
ggaaaatatt cgacatgaat taatgtagag aactataaag catttatgac agctccaaga 1200
aaagtcactc actctatgca ggagatatgt ttagagacct ctcagaaaaa cttgcctggt 1260
ttgagggtac acagtaccat tttaatcttc tgaaaatatc tgtattcctg ctctttttct 1320
gctgtcactg tcaatctgct atatttttca ctatcctatt aaaatattac tgtctcctta 1380
aaaaaaaaa aaaagggcgg ccgttcgcga tctagaacta g 1421
```

<210> 24

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1006416CT1

<400> 24

```
aataaaggag ctccaaatgt cgttgggtgg ggaagcaaaa tgtagagaaa catttaaagc 60
acactgtaat aataaatgca attataaact atatggagga ggggtgcagag gagggaaatg 120
gtctgggtgt tgatgtgtgt gtgtgcagtg ggggtatcac agagagtatg acatctgagt 180
```

```

tgagggtagc aggtgcctgg agtctcaggt ggctgctcac ccatctgtgc aggtgtctct 240
ggggctgctg gtctcacctg tggctgcag tagacacaat tggctgagca ggatatgtga 300
tactgtgtgg ttggtgtgga gttttgaaga aggggctgtg ttggggccac gtaggctcta 360
ctcagagacc tgaaccact tcagaatggt gcatatgtcg aaagagctgg ctgggggcct 420
tgcccaaacc aactgagggtc ttaaagtccg gggaaaaaaa gtctgggttc caactagaat 480
tctagaaata tttctagaac acacagagag ggaataagtc cctctatcac ccttattacc 540
aagccttgtg gttccctgtg atttttagata atgtctgata tttttctggc tatttgccta 600
gtaggattta aaaaatatatt tcaaagtga gctgagagag aatcttggaa acacacatac 660
ctgttgatca tgggccctgc agaattggcc cttgggggct ttatttgggtt acatgtgcct 720
gggtggtcct taccagctta gactctatca tgggccccca tgaagctcca ttctcaatac 780
tgaataatta ttacttccct tgttgagttt ctttttctgt catgccctgg gggcttctgc 840
tcttctcacc agaaagaaca tttgaatctg gattcttgta cacctgggtt agaccctgtt 900
cagagggtg gccaatttat ccgatctcc tgggaaggctg ttgtgatttc catctaagaa 960
atgagggtct tgagaatcaa ccagtcccaa gattagcctg ttatcctgtt atctactgag 1020
acctcaaatt tctcaccaat gttttgggag atcctggaaa agatcccttc agtttggggt 1080
gtcaccaaga cttctacaca acccaggact accattgacc tcagagctgt accccacatc 1140
ttgaagtaaa ttgatccac cagggtccac gtttggtatc tctgcctaaa tgttagcttc 1200
tccatcctca ccacatgatg acctgctgtg tccctctgag cactaccag tggctgaaaa 1260
ctctgcaaat gggccacact tttgcaaaat acttgatatc gacacttagg tcttgtttga 1320
agaatttctt tcttggaagg ttttacaaga agactgatag tctttcaagc cccacatca 1380
caggcttagg gacggcacta acttttctccc agggatctaa ctggctagtt caaattatca 1440
ctcttttacc ttcatataaa atgtctcccc caaacctttt tcccttcttt gtcattgtta 1500
tctgctaagc cactggtcat ttccccatat tctgtagtctt tttttccatc ctatctttct 1560
aatatttgtt gtctttaaca aactgtgttc tgtgtctgtg ctctctcttc cctctcagac 1620
cactggaatg caagtccttc ttcccttttg aatgtactct ggatcccttc ccctgctttg 1680
acccccagac tttgctccat ctattattgc ttctccatcc tggatccttg acatttgtca 1740
ccccactggc cttctcaggt gcaatcagta aaaatgctga gaactcttgg atcttaatct 1800
tcatgactga gtttttttta gttgtatagt tatcatctgc ctttcttcac tttgcatttc 1860
ttcttgaatc cattgcagat tgacttccac tccactcct tcaactaaaag ggctcttacc 1920
aagatcaaat ctaatgggta catttttagt cctatgtgat ttggcctttc gatgtcaatc 1980
atcactccca gccattgatt ttggtgacct acttccctgt gatgatcttc tgatctagtt 2040
tctcaggttc cttcgctggc ctttttctt tccctgcccc tgacatattg acatttctcg 2100
gagttggttt tgtccttgat tcattctcat gtcattctgc acacagtctc tgcataaact 2160
caggcagacc cttcatttaa tgaccacctt agggctgatg attctcaaat ctgtattccc 2220
cgatcttgca tttgagctcc agccccactc atcctctcgg atgttctgca ggcccagcaa 2280
actcatcatg tccaaagtga aactttttct ctttctctgc tctctctctc tgatctgttc 2340
tttcttgtaa caccacccaa gaacgtcacc tctccatca gattgtgagc tctggagggg 2400
caggagctgt gtccttctat tcacttctct atccccagaa ccttgccacag atcctggaat 2460
gtggtaggtg ctcaagtaaa gtgtgttgaa taaatgaatg aatgaatgaa caaatgaatg 2520
aatttgctta cttcaaggca aaagaacct gaaactgtat tttgagtttc tatgttatag 2580
cagtcagcaa atcctattaa atactttgtg tttccaaaaa aaaaaaaaaa 2630

```

<210> 25

<211> 1039

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 975169CT1

<400> 25

```

gttgacacgt tgtatgccat cctggatgag aagaaaagtg agttgctgca gcggatcacg 60
caggagcagg agaaaaagct tagcttcacg gaggccctca tccagcagta ccaggagcag 120
ctggacaagt ccacaaagct ggtggaaact gccatccagt ccctggacga gcctggggga 180
gccaccttcc tcttgactgc caagcaactc atcaaaaagca ttgtggaagc ttccaagggc 240

```

PB-0009-1 CIP

```
tgccagctgg ggaagacaga gcagggcctt gagaacatgg acttctttac tttggattta 300
gagcacatag cagacgccct gagagccatt gactttggga cagatgagga agaggaagaa 360
ttcattgaag aagaagatca ggaagaggaa gagtccacag aagggaagga agaaggacac 420
cagtaaggag ctggatgaat gagaggcccc cagatgcaga gagactggag aggggtggga 480
ggggcccagc gggccttggt gacaggcccc ggggtgggagg ggtcggggcc cctggagggg 540
caatggggag gtgatgtctt ctctctgctc agagagcagg gactagggta ggaccctcac 600
cgctgcgtcc agcagacact gaaccagaat tggaaacgtg cttgaaacaa tcacacagga 660
cacttttcta cattggtgca aaatggaata ttttgtacat ttttaaaatg tgatttttgt 720
atatacttgt atatgtatgc caatttggtg ctttttgtaa aggaactttt gtataataat 780
gcctgggtcat tgggtgacct gcgattgtca gaaagagggg aagggaagcca ggttgataca 840
gctgcccact tcctttcctg agcaggagga tggggtagca ctacacagga cgatgtgctg 900
tatttcagtg tctatcccag acatacgggg tggtaactga gtttgtgtta tatgttgttt 960
taataaatgc acaatgctct cttcctgttc ttcaaaggaa aaaaaaaaaa acaaaaggga 1020
aaaaagggag aaaaaagag 1039
```

<210> 26

<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4152861CB1

<400> 26

```
ggagtcgggt tacaccactt gtgtctgagt tcacgcagca tgttcctctg tcagggattc 60
cgcaaataat tccctgaggt aaaaaaggaa agtgtgtctg gctccagcac ccagagcagt 120
gagcccagtc cccagtcctg gagagagctc cagcaatagg ggccatgtcg ccatagcccc 180
agcctctcgg tccgcagcct cagcagcgtc ccagccggct ggcttcatgc tgcggtgcag 240
ctgcaccatg ttcttggtt gagggggcaa tcgggcacgc tcctcccat gggttgccca 300
tcatgtctaa tggatatcgc actctgtccc agcacctcaa tgacctgaag aaggagaact 360
tcagcctcaa gctgcgcac tacttctctg aggagcgcac gcaacagaag tatgaggcca 420
gccgggagga catctacaag cggaaactg agctgaagg tgaagtggag agcttgaaac 480
gagaactcca ggacaagaaa cagcatctgg ataaaacatg ggctgatgtg gagaatctca 540
acagtcagaa tgaagctgag ctccgacgcc agtttgagga gcgacagcag gagacggagc 600
atgtttatga gctcttgagg aataagatgc agcttctgca ggaggaatcc aggctagcaa 660
agaatgaagc tgcgcggatg gcagctctgg tggaaacaga gaaggagtgt aacctggagc 720
tctcagagaa actgaaggga gtcacaaaaa actgggaaga tgtaccagga gaccagggtc 780
agcccgacca atacactgag gccctggccc agagggacaa gatctaaaaa aaataatgct 840
gggaagtctt aaccacatca agaatgcctc agatcagtga cccaaggaa cttccagaat 900
ggatgaaata gacccaaagc tgaattcacc taattttagg gccaaaaacc caaaaaacaa 960
aacaagacca aaaaaatctt cagatactgg gagaacaaat ctcaattgct caattgtatc 1020
ttatgaaaac aatttttcaa aataaaacaa gagatat 1057
```

<210> 27

<211> 1363

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 986464CT1

<400> 27

```
gaaatcacac agaggccaga ggtcacacag cctcaactgc cccttcacc aggaggcagg 60
agacatcaag agagtatttg tgccctctc gggttttacc ttccagccga gattctccct 120
```

```

cctccccaac atttatctcc atccagtcgg ccacaaggaa gcctctagag actcccagct 180
ttaagggcaa ccctgatgtc tcagtgaaaa gcacacaact ggctcaggac ataggccagg 240
ccctgtccca ccagaaaagg gtccaagaca aaactgggaa gaaggacatc acccagtgtc 300
ctgtgcaacc tgaacctgcc cctccctcag ccagtcacct gccagagagg tggcaaaaga 360
gtgttctgga gctacagacg gggccaggga gctcacaaca ctatggagcc atgagaaccg 420
tgactgaaca gtatgaggag gtggaccagt ttgggaacac agtcctcatg tcttccacca 480
cagtcaccga gcaggcagag ccaccagga acccagggtc ccacctcggg ctccacgcct 540
cccccttgct gaggcagttc ctgcacagcc cagctgggtt cagcagtgac ctgacagaag 600
ctgagacggt gcaggtgtcc tgcagctact cccagccagc tgcccagtga ggcccaccgc 660
ctcccaccac acctgccacc tgttcctggc ctccactgcc ccaggactga agtgggtacc 720
tgctcctgt acactggagc aaggaccaag aggaaatggc atcttcagag gattactgtg 780
ggccatttcc ctttcgcagt tctttcaata ggcccagttc ttccaaatgg aaaaagaaag 840
gtctggaaga ggcccacaga gttgcacagg cgtgggggta ggatgggggc tcccagctgc 900
ttgtggagga tgtaatatat acagacacac acatgtttt caccaggcc tggcccacgc 960
atcgacatgt tgaatttgc acaccactgc ctgaattgga gccccccaga gtgtccctct 1020
accagagtt tttatttctt taattagtct gagtgttccc agccatctgc tcttaatcc 1080
ctggagagga acagagccaa ctggacacag cgttggtctc tgtttggaat cactgtgagg 1140
tctccagaag gacctggccg ccagccctt catcaccatc tccatcattc agctgggtcat 1200
ctgggtggcc aaaggtcacc caaagagtca gcaatcagca tgccctaga agccaaatgc 1260
actgccttct tctgtcccca tgactgtccc ccactctgca ccccaaatgg gaagcatacg 1320
gtctgaataa atccaagttt tattctctaa aaaaaaaaaa aaa 1363

```

<210> 28

<211> 1513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 118472CT1

<400> 28

```

cttcaacatg cccctcacta tctcccgat cacaccaggc agcaaggcag cccagtccca 60
gtcagccag ggtgacctcg tgggtggccat tgacggcgtc aacacagaca ccatgaccca 120
cctggaagcc cagaacaaga tcaagtctgc cagctacaac ttgagcctca cctgcagaa 180
atcaaagcgt cccattccca tctccacgac agcacctcca gtccagacct ctctgccggt 240
gatccctcac cagaagggtg tagtcaactc tccagccaac gccgactacc aggaacgctt 300
caacccccagt gccctgaagg actcggccct gtccaccac aagcccatcg aggtgaagg 360
gctggggggc aaggccacca tcatccatgc gcagtacaac acgcccacat gcatgtattc 420
ccaggatgcc atcatggatg ccacgctgg gcaggcccaa gcccaaggca gtgacttcag 480
tgggagcctc cctattaagg acctgcccgt agacagcgcc tctcccgtct accaggctgt 540
gattaagagc cagaacaagc cagaagatga ggctgacgag tgggcacgcc gtctctccaa 600
cctgcagtct cgctccttcc gcacctggc ccagatgacg gggacagaat tcatgcaaga 660
ccctgatgaa gaagctctgc gaaggtcaag ggaaagggtt gaaacggaac gtaacagccc 720
acgttttggc aaattgcgca actggcacca tggcctttca gcccaaatcc ttaatgttaa 780
aagctaaaag gctgcctgga atccccccac cccaacaggc tggactccct ccatccttac 840
ccccacacag atctggcatg tgagccccac ggtgatgctt gacaatgtat aactctgctg 900
ggggcacctc tgatggccaa ccgcagcatt tctgtcctct gccacccca gagctgatgc 960
tggggccccc cccctgacg ctctgtaccc accaaacctc cccagggcaa cctcgcccac 1020
ccccaaata gcccgtagcc caatcccctg cctctgacac agggccttag ctgtagacca 1080
gagagggcag gagggttttg ctggcataac accccagaac caaggggaaat ggatggggccg 1140
ctgctcagtt tcccaccatc ctgagctcct ggctcatcc cctcctagaa tgagtacccc 1200
gtagatcagg gtctggggaa gaggtgatc cctggcgctg cccggctccc tcgctgccct 1260
ctggagctca gggcagcccc gaatagggtc ctttgaagag gaagtagaag cccagggtta 1320
atgaggcaga gaccctcct ggcagtgggt aggtgggggc atgcaccctc cttctgttac 1380
cgtgtgtgct ggctccatag ttctctcttc tgtacatata agcatgcttg ttctgaaata 1440

```


PB-0009-1 CIP

aagaagatttt gaagtgaacc acaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 1500
aaaaaaaaaaaa aaa 1513

<210> 29
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1314633CT1

<400> 29
gcctgtgtga gcctgaagac ctttctgtcc tggcgacccc tcagaagggc tgcactggat 60
cttgtctgcc cggggagcgc acctatccat tggaggggaag agcctcctgc gggtagagga 120
tggccagcta ctacagcaaac tggacttgag ggggcctggg cagctggagc cctgctctga 180
ggaagaagca cattccctga agcgtctgga agatcagagc cctggggccac caaggggggtg 240
gcctgcagga agagcccctt cacggagaaa ccttgctcag aatccctgcg ggtgccagt 300
gagccgcttt tcgcctttgg ggcattctgg actcagcttg ggctgctgct cccgaccct 360
acccccagcc ccattgcccgc gcttcccctg ctgtgtgtag tgggagatct ctctgtgcct 420
ggcagcccct gcagaccctg ggagggagct caggctgagc caggcactgc aggggatctg 480
ggaaagccaa gatgggcaag gaaacccttc tatggccagg agtgggtggct catgcctgta 540
atcccaacac tgtgagaggc caaggcagaa ggatcagctt gaggtcagga gttcaagacc 600
aagggggggca gcatcgtgaa gagaagg 627

<210> 30
<211> 1606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1997439CT1

<400> 30
ctcgtagact cgcattgact taattttttt aaatcttatt gcatattttg actagataat 60
aaatgcatat gggttaaaaaa ttcacatggt tcaaaaaagt acacctccca ctcatcttcc 120
atgtgatatt tcctttctgc ttagcaattc tgtatttatc ttgctaaaca tgaatgacag 180
ttgtttgctg aaattacatt aaatgtgacg taataaaatc attgtaagta tacatttttt 240
aactttaata atttttaatg tcttaatgaa gagtatgaag agtagtagta ctgctcttca 300
aagtactact actttacctt accttttact gttttgttaa gaaaattagg ccgggcgcag 360
tggctcacgc cggtaatccc agcactttgg gaggccgagg cgggcggatc acgaggtcag 420
gagatcgaga ccattcctggc taacacgggtg aaacccattt tccactaaaa atacaaaaaa 480
ttagctgggc gtggtggcga gcgcctgtag tcccagctac tcgggagggt gaggcaggag 540
aatggcatga acctggaagg cggagcttgc agtgagctga gattgcgcca ctgactcca 600
gcctgggcga cggagcgaga ctctgtctca aaacaaacaa acaaacaaaa gacccaatct 660
gagtcttata gttgtactga tagaagggtc agatatcccc acatggagtt gagtgggaga 720
aagagattca ctagagaata actccttaga gaccaatgtc ttagtcaggt gtacagcatc 780
ttgtgaaagt tatggagcat gaaaagactg aaggccagg acagtttgca tgggctgagt 840
tataccagct agaccaggaa tagaacaagg aattctatac ctcaggattt caaaaagtta 900
gcaacttgag aggccagtgc tgagcaaccc agtaccagg aaatgaaaaa aaaaaagaaa 960
attccctccg agaatgaaca aatcattggc ttcattgcct catgagcttg agagaaagga 1020
gaagagagcc agagtgtggc aagtgaggcc aaaatcagaa gcatggcaga aatgagtgtg 1080
agtgattgag ccacagacag aagtgtggcg agggacaatg ccatattggg agaaggtaaa 1140
gttgagtaac aagaaaccaa ccgtgtgtga gagggggatt ggaaaaaat ttgagggaga 1200
agaatgttag aatggaaggg aatgatgggt gaaggagggt gtgagggtgt gtgctgagtg 1260

PB-0009-1 CIP

```
ttgaaagaac ggttggtgtc tgtgtgattt tccttgagtc tgttcttcag tgtgtcttct 1320
gcagcttgcc atgactgcct gggaaagagt agggaaatac ccagagccaa aacctccttt 1380
cagtcccacc ccatccctca aaaccccagc tattgtctct tttcagcttc aggtcctgat 1440
ctccaatctt agtatggact cctttctcac caagaccacc accagctacg tttgctgtgt 1500
aatctggaaa gtgataatct cctttgcttg ttgggtgtga gtcacaatac tttggtttgt 1560
gcacaagaat aaatttatgc cccatacctt caaaaaaaaa aaaaaa 1606
```

<210> 31

<211> 2184

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2638878CT1

<400> 31

```
gccaaatgga ttgagtgatg agcagacatg ttttaagggtc taagtctcaa gaatctgtta 60
tgtgtgtttg ctgcggtggg aggggggtgct tgtattttatc ttatttccag tcaactataag 120
gttgtagaca aactaattta aagtttactt aataatggta tctttaaaat aattgacaca 180
attgcaaaat gaattccttg cttcagtttag ctattatttt tttaatgaca acatagactg 240
tgctctaagt ttaaaagatg gggaaagctta tataaaagtg acccttttgc atcatatggg 300
tatctaaact taatttacct aataagttga tgcttaatga ttttatttta tttttgtcta 360
tttctatttt agttgtggct ttgctctaag aatgggtaat agttgtacta cagactgcta 420
taaatttctt gtgatactct tttagagctc aaaatatctc tgagcttttag acatggtaag 480
gtggagagta aatgcttgat aaatctttta gatatgtctt gaatgataat taggacattc 540
agtccagtg gaaatacacca ttcaattagt caggtctggt gaatcgtttg tttaaaatat 600
tagcaaatga gatgtggaat tctgaaatct cccagactg tgtcttaata aaaatgtcac 660
ctgggtgaaa ttttagatca atcactaaat ttgggtgaca aatataaaaa tattttcatt 720
tcactttaat acattctttc tgtgaagtaa aatgtttttc tttctcataa tggcaaaaata 780
tgaatgccat caaagtttaa ggaattcatt ttgaccttaa atgccttcgt gagatgtctt 840
acttgatctt taggttaactg gtcacagtg ccaatgacat ggataacaat ttttaactta 900
ctcgacagtg catccctggg aatgactgtt atgtttttgt catattcctg gtaatatataa 960
tactcgtgtt ctttactaca ttgtttttat caactctaaa agtcatgcct ctgtgacctt 1020
tatcatgttt acaattgcaa ctgaacttat gacaaattaa ctcaggaaat aaattgagtt 1080
atcctttcta gcattgtaat taccatcagc aaggcctgag atagccagag ccaatactag 1140
ccaagtgatt tattttcaag gattgccact aactacgggt ctttaggacc aagatataaa 1200
acagtcacta aaaatcatta ggctaggtat cagtaataca ttcattacta ataatgcatt 1260
tttgagagact tttgtgaaag aagttggtct ctgccaaaag ctggtggacc acattcacac 1320
cacgaaagcc agtgtcacat gaaccagatt aatgactctc tttatggggt atgtgggaca 1380
tcctggaagt gtataatttc aggaatgacc agacaatacc atcttgcaaa gcccttcag 1440
gtgacaatct aaacttggtg gtaggagagt gcataaagtt tattgctcaa ctgctcctcc 1500
agcctgctga atttactgag taaagaaata gcaaatatga tagatgtttt agatttcata 1560
gaacagaatg gtttgtccat taattctttc attcaatgac tgtttattga atacctactc 1620
tttttagggcg ctgtgttagg tgctgtattg tacaagaaaa atataataaa ttagattccc 1680
agcgctatct tgacatagtg aatgaccttg aaaaatttac taaacatact atgtttgttt 1740
ctccatgagt aaaataggga tatagggaca aacagtctaa tatctcatag aaataccatg 1800
gagacaaata aaatatttta atataaatat gatattaaag taaattttctg aagtaatact 1860
tttgggtatg gcactagttt ttctctgac tattttactg tttctttcac tctcaatata 1920
aaaactatct gataagataa aacgatatat tttattgtaa ttagaattta gacaaatcag 1980
ctataatgta aaaatgttaa taataattac gttttatctg attaaagtta caatgatcat 2040
agcactttta aaatattatc tgaactgtca tttgtttata tattaccgtc taataaaaata 2100
gttatagatc ttccaagttt gatgccttac attttaaaag gaaaagataa atgggttgatt 2160
aagaaaaaaa aaaaaaaaaa aaaa 2184
```

<210> 32

PB-0009-1 CIP

<211> 1833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3795510CT1

<400> 32
cgggcagtgcc aagctaaaaat taaccctcac taaaggggaat aagcttgggc cgccattttt 60
tttttttttt tttttttttg ctcttttagaa gaggttatat ttttattatc cttatttttg 120
agaacttttc cttataaaat tttttttcca gattccttat gaactcaagt tagtggttaa 180
gctttggatt ccactgttaa cagtttatgt aaaaacactt aacaaattgc catttatatg 240
ccaaactata gctcaagaac actctgtttt agaaaaatta cgcattagat caggaagcct 300
catatatatg tgccctctggg acttcatttg cagtcacatt tagccagaaa agcaatgact 360
tctatatccc ttatggaaac caatgtaaca taaattaatg ttctaaatat agaaattaag 420
agttcataaa gagactgagg ttgcatgtaa aagagttatg gtttgagaca gtctaaaaat 480
actatgttaa tttcaaggat cttatttcca atgttttggt taaaaaatta taaatacttt 540
tgagctcttg ctttgcattt caatcgcaaa cccactcaga tacgggaact gtttaaattc 600
atatatggac aaatagggtt cagtgatgca atactttaaa attctgccat ctcttctgtg 660
ttttctttct aggtgagtggt actgccagct cctgatgtgt catgggtatct aaatggaaga 720
acagttcaat cagatgattt gcacaaaatg atagtgtctg agaaggggtct tcattcactc 780
atctttgaag tagtcagagc ttcagatgca ggggcttatg catgtgttgc caagaataga 840
gcaggagaag ccaccttcac tgtgcagctg gatgtccttg caaaagaaca taaaagagca 900
ccaatgttta tctacaaacc acagagcaaa aaagttttag agggagattc agtgaaacta 960
gaatgccaga tctcggctat acctccacca aagcttttct ggaaaagaaa taatgaaatg 1020
gtacaattca aactgaccg aataagctta tatcaagata aactggaag agttacttta 1080
ctgataaaag atgtaaaaca gaaagatgct ggggtggtata ctgtgtcagc agttaatgaa 1140
gctggagtga ctacatgtaa cacaagatta gacgttacgg cacgtccaaa ccaactctt 1200
ccagctccta agcagttacg gggtcgacca acattcagca aatatttagc acttaatggg 1260
aaaggtttga atgtaaaaca agcttttaac ccagaaggag aatttcagcg tttggcagct 1320
caatctggac tctatgaaag tgaagaactt taataacttt accaacattg gaaaacagcc 1380
aactacacca ttagtaatat atttgattac atttttttga aattaatcca tagctgtatt 1440
aacagattat ggttttaatt aggtaatata gttaatatat atttataata ttatttatcc 1500
tttgactctt gcacattcta tgtacccctc cgatttgtga agcctacagg aaatctgggt 1560
atatggattt gtaactgcag aagactatct taaaatacag gatttttaaca tttaagtcac 1620
gcacatttaa caattacagg ttataaatta gtatcaactt tttaaacaca tctaattgctt 1680
gtaataacgt ttactggtac tgctttctaa atactgtttt acccgttttc tcttgttagga 1740
atactaacat ggtatagatt atctgagtggt tccacagttg tatgtcaaaa gaaaataaaa 1800
ttcaaatatt taaaacggaa aaaaaaaaaa aaa 1833

<210> 33
<211> 1859
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1413537CT1

<400> 33
cttctctttc ctgagcctct ttagagcagc acttacagga ttgcctctgt aaagccttat 60
tcctgtccca gaaaaggtaa tccaaaaagt ctctagtatc cactaaaagg taacccaaaa 120
atctctagta tccactggct ttctccagtg tggaagcttt cccctccacc tcccatagat 180
cactggaaag gacccgaggc ctcggttcta atccctggct tatcactaac tgctgtgtgg 240
ctttggcttg tcccttagtc tctgtgagac tgctgcaccc tcactctgtc aagatggaac 300

```

tggaacttagt tgagctctga ggtccctgtg gacttggccc ctccacaccc tcattatggc 360
aactggacat aaacttaaca gagggcttcc cagcaaaatg tcctcttctt cctacaaaca 420
ggctgtttct atatgtgcat gtttcatgct aagcacttct ttcttgggtg gagatggcaa 480
aggcctcttt ctgctgagac aaagtgattt ggagagtcac ctggcccctg aagggggagt 540
ggtaggatcc agccacccag tgtgcagtga attggagcag ggatctcagc acacagggag 600
gtggggaggc tccccctaac ctcgggcacc tgttgtctct ccagactgca gcgcatgctc 660
ttagctcatc ctcttaactg gctctcaccg tgcctctggc tttgggtcacc acgtagctct 720
cactccagct tcaggtagcc atcagtagga cctggcaata tacactgatt tgggtttgtt 780
tatgtttgtc tgcagggtgaa atccctaagg gctctgccgt gtactccagc cttgtgaccc 840
ttgccttcca ggaaccatgc aagaagcgca gccaccagaa gtccttaaaa cagcaggaaa 900
ggtgagcctg tccccctttt gtgcagctac ctatctgctg aggagcatct gggcctcatt 960
cctccaagtc cactggagggt tccagaagag ggagtcagag atgtatcctg gtggagctgg 1020
gagaaaggca gaaagccttt gtgacagcta tgggaataccg ttagccaagg tccacttggc 1080
ccagactaa gcaaaagatg cgtagtttgc acagaagggt ttgtgatact gcctctcaac 1140
agccccagca gcttgggaac tagcaagagc acatttcttg cctcatcagc tgtcctgaga 1200
tggaaaactc agtggatata ggacctgat tccgatgaaa gggggcacgtg gtcccaatgc 1260
tggagctcct ctggcaggtt ctaaaagcac actacggagc agcgggtgcc tggcggacac 1320
tgctggcggg ggctcagtga gcactactca cagatccaca cctgaccctg ttgggtcgag 1380
tcaggctggg ctttgggtctg cactgtagca cctgtgttct ttgagttcac atcatgaatg 1440
tgggtgatttc ccagatacca tctcaggctt aacctagcac atcctatttc ttttcttcta 1500
tgatatccaa attggactga cctcacttca aagttgctgt cccattttgt caccctatct 1560
tatctcgggg aaattgcaga ctgatggcca gaccaactct gttgaaattc ttgcatagag 1620
caaacctgtg ctcattttta agtggcatgg gagaggcccc aagcctagta aagccttagc 1680
tgtgtcttca cagtgtggtt agaattgtgt tgtgtgtata aatatatgat atagatttat 1740
atatgttgct aacgccacat attgaaggcc aacataactg gtggacaggg tgggtgacag 1800
aaaatgaaag tctttttggg gattgtttaa gcaagatgtg tataaagaaa taaatagtt 1859

```

<210> 34

<211> 2125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1623157CT1

<400> 34

```

tgtgtaaaca ataacaagaa gacatgaagg atttatttgg ttatcaactg cccatggagg 60
aggctcttga tgatcccagg tctcctcgac ctccatacac cacacaggca tttgtaagca 120
cagtttccac aagcaccttg taggaatatg gataagatta gaccagcccc tctctgtcca 180
ctgggtttat ttcttgaaga agatgcagat ctggtttttc caatgtgcca cagtctttcc 240
ttatcctctc catgctgagc ttgacaacac tctgggaatg aggaacaaga ctttttctaa 300
aaagatagtg gaagttcaag ggatgtacct cgttttcagg ttcatccatc tccagtggaa 360
tgttttcaat aaaagatgaa gaaaatgtgt gtgatcttta ataacacatc cctatagaaa 420
gtggataaaa gatataccaa aactgtaata cagatatata caaatatagg tgcctttttg 480
attactcttg tttgtctagt atggctcttg aaagaaaacc aagcaagcaa gttgctgcct 540
attctatagt aatattttat tacacatgat tgatattttt gtggtaggga agtgggatgc 600
tcctcagata ttaaagggtg tagctgattg tattttatct ctaaagattt agaactttag 660
aaaaatgccg ctctcttccat ctatttctga aaggttcttt gtggatttat atagagttag 720
gctatataaa cattaaactt agatttggga tttaaaatgc ctattgtaag atagaataat 780
tgtgaggctg gattcactac acaagatgaa cttcacttca taaatttaatt ataccttagc 840
gatttgcttc tgataatcta aaagtggcta gattgtgggt gttttggtta aggtgatatg 900
gaggtgggag agcttttagt taagtaagaa gctatgtaaa ctgacaagga tgctaaaata 960
aaagtctctg aagtattcca tgccttttgg accctttcct cgcaactaac tgtcaactgt 1020
tgatcaaaaa agtcaaggca ttgtatgttg cttctgtgggt tattattctg tgatgcttag 1080
actacttgaa ccataaaact tggaagaatc tttgagcaaa ttttctcagt tgtctgtatg 1140

```

```

acttcagtat attcctggga atgccatagg atttttttgtg cttgatacat ggtatccagt 1200
ttgcatagta tcacttcttt gtaatccagt tgctgttaag aatgatgtac tttaaaggaa 1260
aagagaaaac tgcatacacag tcccattctc cagtgtccat gcaatgaatt gctgagcatt 1320
taggaagcag caccaagtct attacaggca tgggtgtgaaa cttgatgttt gacctgtgat 1380
caaaattgaa ccattgtaca gtttggttc tggttgcttc aaaatatgta gaattgtggg 1440
tgatgattaa tttgcgagac taactttgag agtghtaacag ttttgaagaa aacattgaat 1500
gttttgcaaa tgaaggggct tcacggaatg ttacaatgtt actaatataa tttggctttt 1560
gttatgcaaa ttgttaacac cagctattaa aatatatttt agtagaaatg ctttaattca 1620
tatttttttc ctctacactg tgaatcttta agccttgggtg gactagagca acatcgtgct 1680
gcccaaagga ctaacctatg caaactagtt cacatttttag tggatgtcgc agttaatgtg 1740
taataagaca ttatttcccc tgcataatgt acaacagcat tgaatgaca cattaagcct 1800
agcatcacat tgtatagtac agtcactcac aaacccttca aggctaccct aatcattaac 1860
attaatat ttttaaaagc aaatcaccca tttatctatt gaaactactt aaatgacggc 1920
aaaccaggaa tgacagatgg ctgtgtcagc aatggcttta atgtgttccc tgcaagtggg 1980
ctcctatgat agaactgctg tctcaaatgc actctcttca ggggtcttaat attctgtgtt 2040
ttctctctgt atttgtaaaa cattataaca cattaatttc ctatctctac acatttgggt 2100
tgcttaaata aatgcaggat ataaa 2125

```

<210> 35

<211> 1686

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009303CB1

<400> 35

```

tctgactgcc agcaccttac agagaagaga ccatcaccac tgtgggtgaag agcccacgtg 60
gccaacgacg gtccccccagc aagtccccct cccgctcacc ttcccgtgc tctgccagcc 120
cgctgaggcc aggctactag gcccccgacc tgctgtacct gccagggtgt gccagcccc 180
gcaggccgga ggcagaacca ggcagaagc ccgtgggtgcc cactgtat gtgacggagg 240
ccgaggccca ctctccagct ctgcccggac tctcggggcc ccagcccaag tgggtggagg 300
tggaggagac cattgaagtc cgggtgaaga agatggggccc gcagggtgtgt ctcccaccac 360
agagggtgcc aggagctcat cggggcatct cttcacactg cccgggtgca cccccggagg 420
gaccccaatt ccaacaactc caacaacaag ctgctggccc aggaggcctg ggcccagggc 480
acagccatgg tggcgctcag agagcccctt gtcttccgcg tggatgccag aggcagtgtg 540
gactgggctg cttctggcat gggcagcctg gaggaggagg gcacccatgga ggaggcggga 600
gaggaagagg ggaagacgg agacgccttt gtgacggagg agtcccagga cacacacagc 660
cttggggatc gtgaccccaa gatcctcacg cacaacggcc gcatgctgac actggctgac 720
ctggaagatt acgtgcctgg ggaaggggag acctccact gtggtggccc tgggcctggc 780
gccctgatg acctccctg cgaggctctg gtgatccaga gagagatcgg ggagcccacg 840
gtggggcagc ctgtgctgct cagcgtgggg catgcaactg gtccccgagg ccctctcggc 900
ctcttttagc ctgagccccg tggggcgta ccaccgggac cccagggtccg tagccttgag 960
ggcacctcct tcctcttgcg ggaggcccc gctcggcctg tgggcagtgc tccttgagc 1020
cagtctttct gcacccgcat ccggcgcttct gcggacagtg gccagagcag cttcaccaca 1080
gagctttcca cccagaccgt caacttcggg acagtggggg agacggtcac ccttcacatc 1140
tgcccagaca gggatgggga tgaggcggca cagccctgat gctgctgcca tgggtggctt 1200
gggcagcggg gagaaaggag tctccttgag gcctaggacg ctgcccggcc tcagcagcag 1260
ccctgggagc ctctgaggg cctccctgt ccctggccac gggcccttct tacctcactc 1320
aacttcagcc aggaggactg ggtgggtgctt gcaatgttgg aatgaccggc tcaaagacct 1380
cagctctggg ctgtttcctg tcagcctggc aggagcctca ggactgtgga cgaaggatgt 1440
ggccttgggc atttgtcctg ttcccacatg ggcctggctc ctccctcctg gcccagcca 1500
cagctgccag gcctgacatg gccttgctc tctgagctc ttggtgactg agacccttgg 1560
gtggcgcttc ccagctctgc aggcctcctt ggccttttct gcagggtgga cacagggtct 1620
gtgtgtgggc agcagccctt gtctctcagc aagaataaag cagcttctctg tgcaaaaaaa 1680

```

aaaaaa

1686

<210> 36

<211> 2350

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3434460CT1

<400> 36

```

cttgaaagga tcattgtgcg gattaaaaga aataatatat gtaaagcact ttaacacagc 60
accaggccca cggaaagtgg ctaatgttag ctactatgaa tgggtgccagt gaagacactg 120
aaaaataagt gatttcagta accttctgga aagctatcag tttcaaataa tattttctct 180
gtaatatgag atgaaattaa aagtggatag ctttcaggaa agataaagag aacatgctta 240
gaatgtaagc taaacagatt ttttctgttg ctctttgaaa actatgagcc ctggccagct 300
taacctggtc tgaggtgaga ctaaacacaa aaacagtaga taaatctctc cctaaaagat 360
ggattccccc acatacccat gctactagtt tctctgtcta ttcacacata tgtacaaata 420
catgaacaca gcctgtctgt gctcagacat agagaagtac tacctgactt gagtcaatgc 480
acccaagaag aaaagcttgg agtagagcag aagggaggggc ttgggactcc tgtctttcca 540
gcatgccctg ggggtgcagt gtcagccacc tgaagagaga gccaatagca tgggggtttac 600
aaggcaaaag tagtcattca ttcaacacat attcatagag ctcttctctc gtgccagaca 660
ctgttctgga agatagctag atgaaaatct ttgcactcac agagcttaca tgccagttag 720
tgaagatcga tgataaataa agcaaatgca tcatatgttc acatttgata agtatatgcc 780
aaaaaatgaa gccgggaagg aggacaaggc ccatgggtgg gtgttgaggt ttttaaagtg 840
tggtcaggaa agggcccatc gataaggtaa catttgagca agtctgaaaa agggcaagggg 900
atctttgggg ctaacttcgg gatccctgca ctttatgtaa gaatgtaaac ctggagtctc 960
atttaagaat gatcagcaat acgttttagaa catatgaact gaatgaaatg gacatttttt 1020
cttaatttac gtataaatcc atatgattat acataaagtt ctgatgcatt aataaaagca 1080
gccaaatagg gccaaagaga aaaataacag gactctgtac tggacctaac tttatcatta 1140
attaggtaat attttcctca tttcttact gctgccattt tcttcaccag tattccagag 1200
atggtcatag ctctattctc taccaccaag aacctaaaag gaattagaat acagcagaat 1260
tggcctcagt gaagagctta aaattgttct cctcgtagaa ctggactatt gatcattacc 1320
acgtgacgtt ggctctatta ctttctgttc ccaatgtcct tctagtgggt tgaaaatggt 1380
aaaacatccc taaaatctaa atcatataat cagaattcta tagtgtccca ctctatctgt 1440
aaagatcatt tggaagactt tagactctat taattttaaa aggaatattt attagccata 1500
tgcagaatth ctaatgatga tattgtacag cttctaattc acttttcaga tcagtgtttg 1560
aatggcaat tatcagtgtt ggatttagtt ccaactactt gatttacaaa aatgtacatt 1620
tagaggttaa aagaaacagt gagaaatgta aacattcaaa atgataattg aatctctcag 1680
ttgtgggaat aattatcaga gacatgcaac tgaaaatgtc tcacctttca tctttttttc 1740
ttaattcata aagttatctt gtagaatttg atgagaccct cctagtcatt ctcaactggg 1800
gcggtgctgt caccgaatgg tgtttgagag tgttggggct agggcacatt tttgggtgtc 1860
acagcaactg ggggtggcatt tgctgcccag tgccaggaat agtaacatta tgaatgccag 1920
ggacagtgtg ctgagtaaag tcttccatcc aaaaggggca gggcacggtg gctcacgcct 1980
gtaatcccag cactttggga ggccaagggt ggcggtcac ctgatgtcag gggttcgaga 2040
ccagcctggc caacatggtg aaacctgtt gctactaaaa atacaaaaat tggctgggtg 2100
tggtgtcaca tgccagtaac ccagctact agggaggctg aggcaggaga atcacttgaa 2160
ccggggaggc agaggttgca gtgagctgag attgcaccac tacactccag cctggatgac 2220
agagttagac ttcactctaa aaaaaaaaaa aaaagggcgg cagctctaga ggaaccaagc 2280
taacgtacgc gagcatgcca catcatagat cttctatagt gtcacctaata taatacatgg 2340
ccgtacagag                                     2350

```

<210> 37

<211> 3502

<212> DNA

PB-0009-1 CIP

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5022769CT1

<400> 37

```
gcggccgctg acagcaccag catgtcttac agtgtgaccc tgactggggc cgggccctgg 60
ggcttccgctc tgcagggggg caaggacttc aacatgcccc tcactatctc ccggatcaca 120
ccaggcagca aggcagccca gtcccagctc agccagggtg acctcgtggt ggccattgac 180
ggcgtcaaca cagacaccat gacccacctg gaagcccaga acaagatcaa gtctgccagc 240
tacaacttga gctcaccctt gcagaaatca aagcgtccca tccccatctc cagcacagca 300
cctccagctc agaccctctt gccggtgatc cctcaccaga aggacccccg tctggacacg 360
aacggcagcc ttggtggcacc cagccccagc cctgaggcga gggccagccc aggaccccca 420
ggcaccgccg agctcaggcc cacttttagc cctgccttct cccggccctc cgccttctcc 480
tactcgcgcg aggcctctga ccctggccct ccgcgggcca gcctgagggc caagaccagc 540
ccagaggggg cccgggacct actcggccca aaagccctgc cgggctcgag ccagccgagg 600
caatataaca accccattgg cctgtactcg gcagagaccc tgagggagat ggctcagatg 660
taccagatga gcctccgagg gaaggcctcg ggtgtcggac tcccaggagg gagcctccct 720
attaaggacc ttgccgtaga cagcgcctct cccgtctacc aggctgtgat taagagccag 780
aacaagccag aagatgaggc tgacgagtgg gcacgcggtt cctccaacct gcagtctcgc 840
tccttccgca tcctggccca gatgacgggg acagaattca tgcaagacc tgatgaagaa 900
gctctgcgaa ggtcaagcac ccctattgag catgcgcggg tgtgcaccag ccaggccacc 960
accccgctgc tgcccgtctt tgcccagcca cctgctgctg cctctcccag tgcggcttcg 1020
ccacccttgg ccacagctgc tgcccacact gccatcgctt ccgcctccac cacagccctt 1080
gcttcaagtc ctgcccagag cccaaggccc caggcctctt cctacagccc cgcagtggcc 1140
gcctcttcag cacctgccac ccacaccagc tacagtgagg gccccgcgc cctgcaccc 1200
aagccccggg ttgtcaccac tgccagcatc cggccttctg tctaccagcc agtgcctgca 1260
tctacctaca gcccgtcccc aggggccaat tacagtccca ctccctacac cccctccctt 1320
gcccctgcct acaccctctc ccctgcccct gcctacaccc cctcacctgt cccacctac 1380
actccatccc cagcaccagc ctataccccc tcacctgccc ccaactataa cctgcaccc 1440
tcgggtggcct acagcggggg ccctgcggag cctgccagcc gtcccacctg ggtgacagat 1500
gatagcttct cccagaagtt tgccccgggc aagagcacca cctccatcag caagcagacc 1560
ctgccccggg gaggcccgag ctacacccca gcgggtcctc aggtgccacc acttgccagg 1620
gggaccgtcc agagggtga gcgattccca gccagcagcc ggactccact ctgcggtcac 1680
tgcaacaatg tcatccgggg cccatttctg gttagccatg gccgttcttg gcacctgaa 1740
gagttcacct gtgcctactg caagacttcc ctggcagatg tgtgctttgt ggaagagcag 1800
aacaacgttt actgtgagcg atgttatgag caattctttg ccccgctgtg tgccaagtgc 1860
aacaccaaaa ttatggggga agtaatgcat gccttgagac agacatggca caccacctgc 1920
ttcgtctgtg cggcctgcaa gaagcctttt gggaacagcc tcttccacat ggaagacggg 1980
gagccctact gcgagaaaga ctacatcaat ctgttcagca ccaagtgcc tggctgcgat 2040
ttccccgtgg aggcggcgga caagtttatc gaagccctgg gccacacttg gcacgacacc 2100
tgcttcattt gcgcagtctg ccatgtgaat ctggaggggg agccgttcta ctccaagaag 2160
gacagacccc tgtgcaagaa gcacgcacac accatcaact tgtaggcggc caaggccgcc 2220
tgtgctgacg agggccggag ctgctcctgc tgctggcaac aaaggattcg ggaggctgat 2280
gtttcttctg aggggaatgg ggagagagag gaagcgactg agccctttgg aagtataatt 2340
ttaggttttt tcttctgtac acagatcgtg catttgcata gttcagacta ggagccaaat 2400
gaagactcaa aaccaagcta gttattaatc caagactgga attgtacttc agacatttag 2460
agcagaattc caagaactca aaagtgaata gcaacaagca gctttcccaa agcgatacac 2520
ttgctttggg caccagagga ggacagagct tagagcagct gtggagaatc tgaagcattc 2580
tgcgaggttc ttaagcgctc ccctggcaaa caaattgaag tgccaaacag cactcgctgc 2640
agggatattt tagagtcata gctgagagct tgtagctaa gacctattgg gctttcctca 2700
ccaaaaaagg aagtgttatt ccattactag cgtcatggag ctacctctgc gcacagact 2760
tcagaccttg aacaaactta aaaccttctt gggagcccgg acgtccaaag agatgtcttc 2820
tgggagccac tgggcaattg ccagggtctc aggaagggtc ctggctcagg ttgcagacag 2880
ctgagaaaaa atggccctgt cagccacctt ctctcagttt gaaacatcca acatccccag 2940
```

PB-0009-1 CIP

```
aaggcttagc tcctttttga attgtgatgg gaaagtagag ttggggtttt ccagttttgc 3000
tctgtgggtg gtgagagatt tttttaaagg ctttgggttg tctttggcct ttgttttagct 3060
ttaagggttc gttagcatga gtgtccagtc gtgtgcatga atttcacccc aacttgtgac 3120
tgctcactta tgacgtctcc cccagtaccc tccatctcaa ataggcttgg tggcctgtgg 3180
aaaagaagag agacagagag acagtgtctg aaacaggatg gcagaatagg ctcacatgcc 3240
caaaactctgg gtggggaaga ggaaacttac tttctgccac cctcagtaag aacacacgag 3300
gaggcaggac ctcccacctt cagggtctgca tcatcctttt caaatgttcc tttaaatgca 3360
gcacactgag tttgtacaat tgtgttaact gctggaaggg acagatgcac tgatatatat 3420
gcatttctg ttttggccaa tattttgaaa atgtatgagc tgagttgatc tagctattat 3480
ttaagtattt attgaagtag ag                                     3502
```

<210> 38

<211> 1689

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 944140CT1

<400> 38

```
cagacgtatg aagcatccat ggacaagctg agggaaaagc agaggcagtt ggaggtagcg 60
caagttgaaa accagctgct aaaaatgaag gtggaatcgt cccaagaagc caatgctgag 120
gtgatgcgag agatgaccaa gaagctgtac agccagtatg aggagaagct gcaggaagaa 180
cagaggaagc acagtgtctg gaaggaggct cttttggaag aaaccaatag ttttctgaaa 240
gcgattgaag aagccaataa aaagatgcaa gcagcagaga tcagcctaga ggagaaagac 300
cagaggatcg gggagctgga caggctgatt gagcgcatgg aaaaggaacg tcatcaactg 360
caacttcaac tcctagaaca tgaaacagaa atgtctgggg agttaactga ttctgacaag 420
gaaaggtatc agcagttgga ggaggcatca gccagcctcc gtgagcggat cagacaccta 480
gatgacatgg tgcattgcca gcagaagaaa gtcaagcaga tggtcgagga gattgaatca 540
ttaaagaaaa agttgcaaca gaaacagctc ttaatactgc agcttttaga aaagatatct 600
ttcttagaag gagagaataa tgaactacaa agcaggttgg actatttaac agaaacccag 660
gccaaagaccg aagtggaaac cagagagata ggagtgggct gtgatcttct acccagccaa 720
acaggcagga ctctgaaat tgtgatgcct tctaggaact acaccata cacaagagtc 780
ctggagttaa ccatgaagaa aactctgact taggcactca gaggcataca ctttttacag 840
atggacaaaa gctctggaac cctgtggctt caaatccttt gggaaggggt actgttgttt 900
cccctacaca cagtgtgaagc cggaatggga atcgtgagg ctctgatcca cttctaagac 960
aggaaggaaa gtgaaggcag agtgagcagg taagagaggg atatacaagg tcacatttca 1020
gacacccact cggcataccc tgccgtactg catcatcatt tgttttcttt gtagacactg 1080
aaatcctatc aggaggattc cttcacaatg tattttattt gctagacttt ggttgggagg 1140
gaaaaggaca ttaatttgaa gtttcatgtt attcatgcca ggattgtttg atagagcatg 1200
aaggttttgt ttaccataaa aagtattaga ggcagcgttt ctctgataca gagaggcctg 1260
tccacaagaa gcatgggcac ccagccaaac ttgaacctgg aaggaggagg tcccggcctg 1320
cagggtgctc ttctcttgg tcccaagcat ctgtgcaggg tcgtgggagc cacactgaga 1380
gacttgtgtg ggccagacaa gcttcattct gatgcgctag tcccttgggt taatttgtgc 1440
cttatgcttt cattggacca gctgaaatca ctgtatttat tcaacttggt attttttttt 1500
ctttctcact ttaacttaaa gagaatttta tatgtcttgg aaatttaata atttagtgtt 1560
ctcagtatca attggtgttt ttgttaaacy aatgaatcat ctgttcatgc atgctctact 1620
ttgatattat aacctatgtc acatgtgttt aataaatacc atataattttg ttctaaaaaa 1680
aaaaaaaaa                                     1689
```

<210> 39

<211> 1918

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3445829CB12

<400> 39

```

cagcctgccca cttgcctccc tgcttgcttc tggttgcttc gaatgcctgg tccttcaagc 60
tccttctggg tctgacaaag cagggaccat gtctaccttt ggctaccgaa gaggactcag 120
taaatacgaa tccatcgacg aggatgaact cctgcgctcc ctgtcagccg aggagctgaa 180
ggagctagag agagagttgg aagacattga acctgaccgc aaccttcccg tggggctaag 240
gcaaaaagagc ctgacagaga aaacccccac agggacattc agcagagagg cactgatggc 300
ctattgggaa aaggagtccc aaaaactctt ggagaaggag aggctggggg aatgtggaaa 360
ggttgacagaa gacaaagagg aaagttagga agagcttata tttactgaaa gtaacagtga 420
ggtttctgag gaagtgtata cagaggagga ggaggaggag tcccaggagg aagaggagga 480
agaagacagt gacgaagagg aaagaacaat tgaaactgca aaagggatta atggaactgt 540
aaattatgat agtgtcaatt ctgacaactc taagccaaag atatttataaa gtcaaataga 600
gaacataaat ttgaccaatg gcagcaatgg gaggaacaca gagtccccag ctgccattca 660
cccttggtga aatcctacag tgattgagga cgctttggac aagattataaa gcaatgacct 720
tgacaccaca gaagtcaatt tgaacaacat tgagaacatc acaacacaga cccttaccgc 780
ctttgctgaa gccctcaagg acaacactgt ggtgaagacg ttcagtctgg ccaacacgca 840
tgccgacgac agtgacagcca tggccattgc agagatgctc aaagtcaatg agcacatcac 900
caacgtaaac gtcgagtcca acttcataac gggaaagggg atcctggcca tcatgagagc 960
tctccagcac aacacggtgc tcacggagct gcgtttccat aaccagaggc acatcatggg 1020
cagccaggtg gaaatggaga ttgtcaagct gctgaaggag aacacgacgc tgctgaggct 1080
gggataccat tttgaactcc caggaccaag aatgagcatg acgagcattt tgacaagaaa 1140
tatggataaa cagaggcaaa aacgtttgca ggagcaaaaa cagcaggagg gatacgaatg 1200
aggacccaat cttaggacca aagtctggca aagaggaaca cctagctctt caccttatgt 1260
atctcccagg cactcaccct ggtcatcccc aaaactcccc aaaaaagtc agactgtgag 1320
gagccgtcct ctgtctcctg tggccacacc tctcctcctc cccctcctc ctcctcctcc 1380
ccctccttct tcccaaaggc tgccaccacc tctcctcctc cccctcctc cactcccaga 1440
gaaaaagctc attaccagaa acattgcaga agtcatcaaa caacaggaga gtgcccacg 1500
ggcattacaa aatggacaaa aaaagaaaaa agggaaaaag gtcaagaaac agccaaacag 1560
tattctaaag gaaataaaaa attctctgag gtcagtgcga gagaagaaaa tggaagacag 1620
ttcccgacct tctacccccc agagatcagc tcatgagaat ccatgggaag caattcgggg 1680
aagcagcata aaacagctaa agcgggtaag taaccagaga acagacatag gggcacagat 1740
aaagtaaagt agttgtctc cattgcatgg ttgtaccaa gtcacctctc acaatactta 1800
tcaatacttt caatatttta gtatgcgaga gcaaacacac caagtttgaa acattaggag 1860
caggcacaca agtgagcaca tttctatttg agaggaacgc ctgggccgct ttcccagg 1918

```

<210> 40

<211> 1086

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3016490CT1

<400> 40

```

gcggccgcta cggtgtcttc gtcaagatca agtatggctc cgagacgggc cagggcacca 60
ttagtgtgtt caagcacggg gacgagccca aggagctgaa gagcatgtga cagcgtgtgt 120
ccaggcacag tctgagtcta gtctgcatgg accagtaggg acaacctgta ccagggtcac 180
agcctggcac aggttacagg ggtggggcag aaggaaaggg gacaagatag aacccaggat 240
gtgaggggtg ggttgaggcg gatgcacaa agtgagaaag caaagatctt tctgggggtcc 300
tgagtggctt ccaggagagc gggatgaacc ctggacctgg agtaggagac ccggatgcac 360
tggggctatc taacagtact ggcattctgat aggtagaggt caggtacgct gctaaacact 420
gcagctccca ccacatagaa ttatccgacc ccagatgtca aaagtgccaa gggccatgag 480

```

```

ccctgccata aactgatata tgcaccccct ctttttaggat cccatagttt caattcatgt 540
aagttcaaca gacacctgaa gtctagcatg tgggaggctg aggatggagc tgggaacaca 600
aaggcagctg ataagcaggt tctgcttgca aagaggcctc agtccagtgg gagaaacaga 660
cctgggcgca aacaactcca ggacaaggca ggacatgata aagattataa agcagggtcca 720
aggaaagtgc cgccagtggg ccaaggaggg agacagaggg tctgcccaac agggggaggt 780
agggctttga aaacaccttc atccaggctg ggcgaggtgg ctcacgcctg taatcccagt 840
agtttgggag gccaaaggcg gcagatcacc tgagggtcagg agtttttagac cagcctggcc 900
aacatgacga aactcagtct ctactaaaaa taaaaaaatt agccaggcat ggtgggcagt 960
agctgtaatc ccggctattc agaaggccga ggtgggagaa tccgttgaaa cttgggaggc 1020
ggaggttggt aattgagcca gatttggggc aaaaaaaaaa ttggccgaaa ttggtgtttg 1080
ggcccc                                           1086

```

<210> 41

<211> 3441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4151935CB1

<400> 41

```

gtttcaaagg acacaaagag agatgtggac tcaaagtcac cggggatgcc tttatttgaa 60
gcagaggaag gagttctatc acgaaccag atatttccta ccactattaa agtcattgat 120
ccagaatttc tggaggagcc acctgcactt gcatttttat ataaggatct gtatgaagaa 180
gcagttggag agaaaaagaa ggaagaggag acagcttctg aagggtgacag tgtgaattct 240
gaggcatcat tcccagcag aaattctgac actgatgatg gaacaggaat atattttgag 300
aagtacatac tcaaagatga cattctccat gacacatctc taactcaaaa ggaccagggc 360
caaggtctgg aagaaaaacg agttggtaag gatgattcat accaaccgat agctgcagaa 420
ggggaaattht ggggaaagtt tggaactatt tgcagggaga agagtctgga agaacagaaa 480
ggtgtttatg ggaaggaga atcagtagac catgtggaga ccgttggtta cgtagcgatg 540
cagaagaaaag ctcccatcac agaggacgtc agagtggcta ccagaaaaa aagttatgcy 600
gttccatttg aagacacca tcatgttctg gagcgtgcag atgaagcagg cagtcacggt 660
aatgaagtgc gaaatgcaag tccagaggtc aatctgaatg tcccagtaca agtgtccttc 720
ccggaggaag aatttgcatc tgggtgcaact catgttcaag aaacatcact agaagaacct 780
aaaatcctgg tcccacctga gccaaagtga gagaggctcc gtaatagccc tgttcaggat 840
gagtatgaat ttacagaatc cctgcataat gaagtggttc ctcaagacat attatcagaa 900
gaactgtctt cagaatccac acctgaagat gtcttatctc aaggaaaagga atcctttgag 960
cacatcagtg aaaatgaatt tgcgagtgg gcagaacaaa gtacacctgc tgaacaaaaa 1020
gagttgggca gcgagaggaa agaagaagac caattatcat ctgaggtagt aactgaaaag 1080
gcacaaaaaag agctgaaaaa gtcccagatt gacacatact gttacacctg caaatgtcca 1140
atttctgcca ctgacaaggt gtttggcacc cacaaagacc atgaagttht aacgcttgac 1200
acagctataa gtgctgtaaa ggttcaatta gcagaatttc tagaaaattht acaagaaaag 1260
tccttgagga ttgaagcctt tgttagtgag atagaatcct tttttaatac cattgaggaa 1320
aactgtagta aaaatgagaa aaggctagaa gaacagaatg aggaaatgat gaagaagggt 1380
ttagcacagt atgatgagaa agcccagagc tttgaggaaag tgaagaagaa gaagatggag 1440
ttcctgcatg agcagatggg ccactttctg cagagcatgg acactgccaa agacaccctg 1500
gagaccatcg tgagagaagc agaggagctt gatgaggccg tcttcctgac ttcgtttgag 1560
gaaatcaatg aaaggttgct ttctgcaatg gagagcactg cttctttaga gaaaatgcct 1620
gctgcgttht ccctttttga acattatgat cagagctcgg caagaagtga ccagatgtha 1680
aaacaagtgg ctgttccaca gcctcctaga ttgaacctc aggaaccaaa ttctgccacc 1740
agcacaacaa ttgcagttta ctggagcatg aacaagggaag atgtcattga ttcatttcag 1800
gtttactgca tggaggagcc acaagatgat caagaagtaa atgagttggt agaagaatac 1860
agactgacag tgaagaaaag ctactgcatt tttgaagatc tggaaacctg ccgatgctat 1920
caagtgtggg tgatggctgt gaacttcact ggatgtagcc tgcccagtga aagggccatc 1980
tttaggacag caccctccac ccctgtgatc cgcgctgagg actgtactgt gtgttggaac 2040

```

```

acagccacta tccgatggcg gccaccacc ccagaggcca cggagaccta cactctggag 2100
tactgcagac agcactctcc tgagggagag ggccctcagat ctttctctgg aatcaaagga 2160
ctccagctga aagttaacct ccaacccaat gataactact ttttctatgt gagggccatc 2220
aatgcatttg ggacaagtga acagagtga gctgctctca tctccaccag aggaaccaga 2280
tttctcttgg tgagagaaac agctcatcct gctctacaca tttcctcaag tgggacagtg 2340
atcagctttg gtgagaggag acggctgacg gaaatcccgt cagtgcctggg tgaggagctg 2400
ccttctctgt gccagcatta ctgggaaacc acagtcacag actgcccagc atatcgactc 2460
ggcatctgct ccagctcggc tgtgcaggca ggtgccctag gacaagggga gacctcatgg 2520
tacatgcact gctctgagcc acagagatac acatttttct acagtgggtat tgtgagtgat 2580
gttcatgtga ctgagcgtcc agccagagtg ggcatcctgc tggactacaa caaccagaga 2640
cttatcttca tcaacgcaga gagcgagcag ttgctcttca tcatcaggca caggtttaat 2700
gaggggtgct accctgcctt tgccctggag aaacctggaa aatgtacttt gcacctgggg 2760
atagagcccc cggattctgt aaggcacaag tgatccttgg ctttcagaat ttgcaagaac 2820
agcgatttga attttggggg ggtctgctgt tcattccttt aggtgctata cattattcaa 2880
aaagtctccc gcgcatttgc actaatgatg gctgcatgca tagcaatcag catgtgagca 2940
aaatcgacaa gaaaaccttg actttacaga gcagtgtgtg agtaaacaga atgaaaacaa 3000
caacctccac tctttagttt atataagttt gaggttcttt ctaaattaaa agatctacac 3060
ttgagttggg aaccaaaga gaaaaatgga ctccatctg ttttactggg aaaggaaatc 3120
ctctgatgga caggtcagag tgaaggagg ttgtgctggg aagacatctc tgacgaagag 3180
ccatggatgc tttccacaaa atgtcacctc gctgcactaa aggatgatga atcctaatac 3240
ttaaaggaat tgtttcagct gatttaaat tataatgaac tcttttgtaa taatgtatac 3300
tgtagaacat gagtctctcc tccctaaaat tttaaatgta gaaaagtgtc atatattaga 3360
aatttccatt ttgttaaata atgggttaga gtctataaag ccagtcatgt tatgtgaact 3420
tactccatgt aacttactgg c

```

<210> 42

<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3719652CT1

<400> 42

```

cactaagaag gggctgtgct ttgatccctt gcctcttgc ctaccaatgt ctcaagacat 60
aatattcatc tcttgctgtc agaccattc tatattctaa aagcttctgc tcttctcttc 120
ccaatttctc cttttagtaga ggaaattaca cccagccctc atctcaatta atgctaaata 180
aagctattgt ttttccaaa cacaatcta cactgggtct caatatcagt gatgaggctt 240
acaaaccaac acgttttctg ccatgaggat ttctctttag gccagaagta caaaacaaaa 300
aaaccaatgg attttaacca aaatgatttg aaatataggt gaggattcag gagaaggcaa 360
aagctagaaa cacttggggg tgtcaacatg agtattacat taacattgct tgatgagaac 420
ctctaattgat actgacaaca taaattacct agggtaaagg atagctgcaa caatgaaaca 480
ggaaagaaga gagggagaga gaggaaggga aaggaagaaa ggaaggaggg agaagggaag 540
aaagaacaaa tgtctaacc aaccctatct tgaaagttag actcaagtag aaaaatggat 600
agaaacaaaa ttctctagta ctcatccagg aaaccattct tcaatgttgc atgtggctgt 660
ttgccagggc acacaaagtg cttgtaggca gcaaccatat gctacaagaa ttgtaaaactg 720
catacagttt gtttgaagta gacagtgagg ataataacaa agttgctagg caggaaaaaa 780
aatcaggaaa aaagcttctg gctattttag aatctgtata tttttaagg cttaaaatat 840
tataaccaca gggatatccag ccaaattcaa cattactgca agtcttagag atttaaacat 900
tcatttgatt catagctaaa tattcaccat aatccaggag ggtctccttc cccactgcag 960
aggcagaacg tccaagaatg gagtaagatt agtcatagta aagtctcagt ctgaatatatt 1020
agcaagagaa acaggcagca gaggaaccca aaggcagtaa atcaaatact ctaaaaccca 1080
aagttcatta ttttcatcca aaagactttc acagaaacac attactcaca gccatgtata 1140
tcttgacag agtttcagat ggaatgactt gtctgaaatt tgtaaagctt aatatagggtt 1200
ttgggggaat tattttaata ttcaaagaat gttttattat agtcctttgt gttaaaattt 1260

```

PB-0009-1 CIP

```
agccttacta attataacaa taactcataa agttctaaat tcagaaggaa tgtctgttct 1320
ttatcaagtg tatgtaacta ttttttagaa atgccatcta ctttctagaa acactaaagt 1380
tattgttttc taagttaaat aactataatt tatatatcta ttaaaaaggt acttctcttc 1440
ccaaaaaaaa aaaaaaaaaa a 1461
```

<210> 43
<211> 854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3046106CT1

<400> 43
ttttgaagta tttttaaaag gggtttggag gtagcatccg aaatcatata aagattgggg 60
ataaatgttg aattttttgag atatggaatg tctattaaga ggtggaataa agattgtatg 120
tgtcatactc tttggaggaa agtgggtcccc caaaatgaca gcaattccta aggagtttgt 180
gaaggggtac atgttggaat catatagagt aaatatcata aaaactatcc atacattact 240
gttgcatctg caagagcaca tcatttagaa tatacatcca attattaaat ttattttaata 300
ggcaagatgt tatagagaag acagttctca agattctttt tcagtttcca ttgactaaat 360
ttctaacttt agaaagctct gaatgtgaca tatttcgcca ttcttcagca agagtgatgt 420
caaaccttaca tccccacttt gcaaaaatat atcacttcaa tggaggtggc atataaacct 480
gaatttttat tttatggaag gttgctatgt gaatatacag agctgaagggt ttaggagggc 540
aactaagggt cttatcgtac cacatctctg gcccttattg aatgtttctt ttcctaagtc 600
cattcctgac tccagtttgc tgtataatcc tgagactcct ttacagaata cggggatcta 660
acatgtagag actattcctg taattgggtg ttcttgaggg cattgcaaaa ccaaattttt 720
ctttactttg tagcactttt gactaatgtt atctaaggac tgtatcaaag aattgggttc 780
tattagattt tagtttaaga aatcttacia ttttgttaca gagcaggcta tttggaggat 840
gaaactgaaa ttaa 854

<210> 44
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3012947CB1

<400> 44
acccttttcag taatcattca accaacgctt ccatgtctct actctgtcgt aacaaaggct 60
gtgggcagca ctttgaccct aataccaacc ttcctggtca gagttgcctc tgaagctgct 120
gccgctaaat atatcccaag ccctggaaat ggcattggaa cagaaggaat tagaccagga 180
acctggggca ggacttgaca gtctgatccg gactgggtcc agctgccaga acccaggatg 240
tgatgctgtt taccaaggcc ctgagagtga tgctactcca tgtacctacc acccaggagc 300
accccgattc catgagggga tgaagtcttg gagctgttgt ggcatccaga ccctggattt 360
tggggcattc ttggcacaac cagggtgcag agtcggtaga catgactggg ggaagcagct 420
cccagcatct tgccgccatg attggcacca gacagattcc ttagtagtgg tgactgtata 480
tgccagatt ccacttcctg cgtttaactg ggtgaaggcc agtcaaactg agcttcatgt 540
ccacattgtc tttgatggta accgtgtgtt ccaagcacag atgaagctct ggggggtaag 600
tgaagaccag gggacacaag agtgggaggc agatgggtga aagagcggct agactggaat 660
agaggggtgtc ttgaggggaag gagttgtact aggaaaatgg aggttttctc ttca 714

<210> 45
<211> 1434

PB-0009-1 CIP

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 466761CT1

<400> 45

```
caagaatgta tcctttcagc tctctttggt tatacctgaa gccaggagcg ttgagttatt 60
agccttggtg ttatattcct ctcaactgtaa ttggtgtcat tttcccagca gtcctagcag 120
tcctcaagca agtgggaaat cggaaaagaa aaggacaggc attgtaggga agcagaggat 180
aaagaattta gccaacaaaa gaaacaatct agtcaatctg ggtgctttta tttcctgggt 240
actctctaaa catggctcag agctggtgta gatgaagtag gtgaaacctc tgaaaagagt 300
ctagaaggca gtagagcaag tcccagacca gaaacatgct catcttttca tcgtaatgtg 360
ccactcggtg ctatttggta atgtcactct atttttccta atcccatcct ttggtttgta 420
tttcataatt gtatataagg caccattttc taaaaatatg actagggtgt gacctaaggt 480
tttattctgt gaagatgagt aactggaaag aagctaacac tgcagtggga aggaaggaag 540
agagttgtcc aggtggtagt tcgacgtgtt ttgaatctag tccttcctac atggaggata 600
aaagctccta aagtccactc tgggtttgtg attttaatag aaatagaaag ggaaactata 660
gaccaatgga gatgaaaatc aggggctatc gacagatgga ggagaaataa ggtgctacat 720
agagaaagga agagggcaga aggctttccc ttcccaaact ggggtgagctg gggaagcctt 780
ggttcaggag agtggcactg cccacaactg ctttgtgggt tgtgcacttc cagccgcact 840
ctccccctcc agttgctgcc ttcagagccg tactgaagca cgagcttcaa taagacaagc 900
acacttcata gtgagaggc agcggtagca aagcctttca gagagactat ggattagaca 960
gaaatgattt gtgagaggaa gctggagtga acagcatgaa cagcgagtgt tacctgacag 1020
aggcaagaca gctagaagtg gcttcagatt tagaaacagc tgagggggagc aaagacggac 1080
tgtgtacaca gggagggagg atgtctatgg gcagagccct tgggtgagtat catcaccaag 1140
aaaggcagtc cagagtagag atcagccgaa tatggaggct gaggtctgta gaactgggcc 1200
agagaggacc ttactgcctt agtagcataa ggggtctggaa aagaagtttc tatctcacia 1260
caaaggaaaa agtgaagagc aaggtggaac ttgaagatac gtcacgaaaa tcaactataa 1320
agtctgattt atgtgtgatg tcaaatcaaa ctgaaatgaa gaatgagatt gagtatatct 1380
gtggtgactg acctctgtat actagaaacc tcaacatctc tagaagagga aata 1434
```

<210> 46

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1644171CT1

<220>

<221> unsure

<222> 2159, 2169-2170, 2223-2245, 2248-2272, 2275-2277, 2279-2295

<223> a, t, c, g, or other

<400> 46

```
tgagaaccaa ctcatthttg taththttagt agagacgaaa ccccatcctc ccaaagtgtc 60
gggattacag gcatgagctg ccgcacccgg cctccacctg ggttttgagc caatcccctg 120
gacttgctcc tggthttcctc aaggggtggg gcagtggtht aggacactcg acaactaaga 180
acaggagtth ccaggaagga caaggatctg catccccac tgccacttct ctgatgtgtt 240
cctcaaagct ggctcgaggg ctcgatccct tcacgcgact caggagggga ctggttggtg 300
tatccaggta atthactctt ggaagtgact gtagtgaagg tcgtggaagg gctcagaggg 360
ttaattggth tgcatgtcgt cthtgtctat tgcattgtct ggaaaactca gatcccaaag 420
gcgctgggth tcagagagga cagtggagac cthtgtcctt ttccttaggc cgccagtcctc 480
```

```

tcaaatttca gaggaggctg tttccacaac tcccctatgg aaacacttgg cagcggagtt 540
gctcctttgc agtttccaca ccatggcttt tcccttcctt tcttctccat tccctgatgc 600
atcaacactt acttggagca atttccatag agtcagaacc agcaccagcc actcgggtgc 660
ggtggccacc aaggcttaac attgaccttc ccgcctgacc ttgatgcaga tgtccactga 720
acacaccgca ggaaagccag ggccttcaat accaataagt gtgaatatgt gtgtatgttg 780
tccaagagag attagggaga tcacatagac tctagggagt agagaacttg taacagtctt 840
gcaaggctag catgcacggc tccacagcag gtggtgggga gcagaggggc aggacctgca 900
gggaagaagc agcctttgga tggtgaaatg tgcattggtg acagtctgtg catgcccgag 960
agaccagcc cgggctgcct cgaggggctc ctttgtacac agccagccgc ttctcttggg 1020
aacaagctgt cctgggggcc ttaccacga ggcaggagtc aggatgcacc agctcagcac 1080
caggaagtca tcttggaacc aggacagtgg aaaggcaggc agagggagag gactctgtag 1140
gtcaggcagg gtaagccagt tggcagtcag gttaggtcta tgaggagaac ctcgagttag 1200
gaattcccgg ttctcagaat tggtatcact ctggtgcatg ctgtcacagg ggcggttgcg 1260
tttggctttg tggagggcct ggacccttcc acaagaacac ccgaggttcc agggcactca 1320
ggacaatggt tccaaggaaac gagtgcacca ggaaagaaca gtgagttctg caaggggcat 1380
ccacggagcc tgtgataggg gctgatgaga tggaatctgt cctggacttt tcttctcatt 1440
aaccaccctc cgaaacccc agaaccctc gcctcatctc tgtactgtct gccctcttgg 1500
gggatgggcc ctcccacttt cccctgcctg ctctccatg ctgtgagctg ctttggcaga 1560
tctgtttttc tgtgtagtca ggggaaaaaac aaaaaaagat gcacaactgt gtgggcattg 1620
tcatagctgt tgggtgcacc actgcttttg gggaaatggc tgggatgagg ctaatacatt 1680
catgcaatat ttatattttc agggggctgc gttatcagca tgctctccct gccttgggct 1740
tttctttccg tcattgtttc cttttcgtgt tcttctctg atttctcttg tctctgtgc 1800
tcacaggcct gcccatcagt cagtacagat actcagtgtc tggtttctgg ccagctccgt 1860
ggagggggct ttaagcagaa ttctgactct ttgggggtgg ggattaggaa ctgggggaaa 1920
cttaatgatc cagagattcc cccaagagga gtgtctggaa ggatctgtgc ctggacagtg 1980
gcagaacctt tccagtgttc ttttggttct gatttcatca gtctcaataa agttccgatc 2040
tctctttaa aaaaaaaaaa acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agacaaaaaa 2100
aaaaaagggg gcccccaaaa agggggggga ccccgcccca agcgcgaaag cgcctcaana 2160
gctttcccn gaaaaaattt ttccccccc aaaattccag cccgctgggt gagtcgctg 2220
tcnnnnnnnn nnnnnnnnnn nnnnnctnnn nnnnnnnnnn nnnnnnnnnn nnggnnnenn 2280
nnnnnnnnnn nnnnnccc

```

<210> 47

<211> 728

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009806CB1

<400> 47

```

gacaataggg agaatggaga acgtggaggt cttcaccgct gagggcaaag gaaggggtct 60
gaaggccacc aaggagttct gggctgcaga tatcatcttt gctgagcggg cttattccgc 120
agtggttttt gacagccttg ttaattttgt gtgccacacc tgcttcaaga ggcaggagaa 180
gctccatcgc tgtgggcagt gcaagtttgc ccattactgc gaccgcacct gccagaagga 240
tgcttggtctg aaccacaaga atgaatgttc ggccatcaag agatatggga aggtgcccga 300
tgagaacatc aggctggcgg cgcgcacatc gtggagggtg gagagagaag gcaccgggct 360
cacggagggc tgcttggtgt ccgtggacga ctgacagaa cacgtggagc actttgggga 420
ggaggagcag aaggacctgc gggaggacgt ggacacattc ttgcagtact ggccggcgca 480
gagccagcag ttcagcatgc agtacatctc gcacatcttc ggagtgatta actgcaacgg 540
ttttactctc agtgatcaga gaggcctgca cagcgtgggg cgtaaggatc tttccccacc 600
tggggctggt gaaccatgac tgttgccca actgtaactg gcaaatttta caatgggcat 660
cctgagggca ttgaaatccc aaggttcatt accaagattg ggaatttgag cctccgggcc 720
ccttaggg

```

PB-0009-1 CIP

<210> 48
<211> 1158
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5578191CB1

<400> 48

```
cagctcgagg gacggcacca tggaggactc cgaggcgggtg cagagggcca cagcgctcat 60
cgagcagcgg ctggcacagg aggaggagaa tgagaaactc cgaggagaca cagccagaa 120
gctgcccattg gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc 180
cctgcagaag gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcgagg 240
gatcatcgat gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa 300
gaagcgggac gctctggccg cctcgcacga gccgccccca gagcccgagg agatcactgg 360
ccctgtggat gaggagacct tcctgaaagc tgcggtggag gggaaaatga aggtcattga 420
gaagttcctg gctgacgggg ggtagccga cacgtgcgac cagttccgct ggacagcact 480
gcaccgagct tccctggaag gccacatgga aatcctggag aagcttctag ataatggggc 540
cactgtggac ttccaggatc ggctggactg cacagccatg cattgggcct gccgcggggg 600
ccacttagag gtggtgaaac ttctgcaaag ccatggagca gacaccaatg tgagggataa 660
gctgctgagc accccgctgc acgtggcagt ccggacaggg caggtggaga ttgtggagca 720
ctttctatcc ctgggcctgg aaatcaatgc cagagacagg gaaggggata ctgccctgca 780
tgacgctgtg aggctcaacc gctacaaaat catcaaactg ctgctcctgc atggggctga 840
catgatgacc aagaacctgg caggaaagac cccgacggac ctggtgcagc tctggcaggc 900
tgatacccg cagccctgg agcatcctga gccgggggct gagcataacg ggctggaggg 960
gcctaataat agtgggcgag agaccctca gcctgtgcca gccagtgaa tgcgtgcccc 1020
agcccagcca gctaccagc ccctctctgt gtgcagccgg agggtoctaa gaatggctcc 1080
cggagctaac tgagggccca gccttttttc tgcacgatcc aggagcacat accacaaact 1140
accacaataa aaaagctg                                     1158
```

<210> 49

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3601719CD1

<400> 49

```
Met Leu Glu Pro Ser Arg Gln Ile Ser Ile Phe Gln Trp Glu Pro
 1          5          10          15
Phe Gly Gln Glu Gln Val Asn Pro Pro Glu Glu Lys Asn Val Leu
          20          25          30
Leu Lys Trp Arg Arg Val Phe Leu Pro Pro Arg Met Arg Arg Arg
          35          40          45
Ser Gln Phe Gln Glu Arg Arg Asn Phe Gln Asp Leu Gln Ser Ile
          50          55          60
Tyr Arg Lys Ser Arg Ile Leu Lys Val Asn
          65          70
```

<210> 50

<211> 552

<212> PRT

<213> Homo sapiens

PB-0009-1 CIP

<220>

<221> misc_feature

<223> Incyte ID No: 3445829CD1

<400> 50

Met	Ser	Thr	Phe	Gly	Tyr	Arg	Arg	Gly	Leu	Ser	Lys	Tyr	Glu	Ser
1				5					10					15
Ile	Asp	Glu	Asp	Glu	Leu	Leu	Ala	Ser	Leu	Ser	Ala	Glu	Glu	Leu
				20					25					30
Lys	Glu	Leu	Glu	Arg	Glu	Leu	Glu	Asp	Ile	Glu	Pro	Asp	Arg	Asn
				35					40					45
Leu	Pro	Val	Gly	Leu	Arg	Gln	Lys	Ser	Leu	Thr	Glu	Lys	Thr	Pro
				50					55					60
Thr	Gly	Thr	Phe	Ser	Arg	Glu	Ala	Leu	Met	Ala	Tyr	Trp	Glu	Lys
				65					70					75
Glu	Ser	Gln	Lys	Leu	Leu	Glu	Lys	Glu	Arg	Leu	Gly	Glu	Cys	Gly
				80					85					90
Lys	Val	Ala	Glu	Asp	Lys	Glu	Glu	Ser	Glu	Glu	Glu	Leu	Ile	Phe
				95					100					105
Thr	Glu	Ser	Asn	Ser	Glu	Val	Ser	Glu	Glu	Val	Tyr	Thr	Glu	Glu
				110					115					120
Glu	Glu	Glu	Glu	Ser	Gln	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Ser	Asp
				125					130					135
Glu	Glu	Glu	Arg	Thr	Ile	Glu	Thr	Ala	Lys	Gly	Ile	Asn	Gly	Thr
				140					145					150
Val	Asn	Tyr	Asp	Ser	Val	Asn	Ser	Asp	Asn	Ser	Lys	Pro	Lys	Ile
				155					160					165
Phe	Lys	Ser	Gln	Ile	Glu	Asn	Ile	Asn	Leu	Thr	Asn	Gly	Ser	Asn
				170					175					180
Gly	Arg	Asn	Thr	Glu	Ser	Pro	Ala	Ala	Ile	His	Pro	Cys	Gly	Asn
				185					190					195
Pro	Thr	Val	Ile	Glu	Asp	Ala	Leu	Asp	Lys	Ile	Lys	Ser	Asn	Asp
				200					205					210
Pro	Asp	Thr	Thr	Glu	Val	Asn	Leu	Asn	Asn	Ile	Glu	Asn	Ile	Thr
				215					220					225
Thr	Gln	Thr	Leu	Thr	Arg	Phe	Ala	Glu	Ala	Leu	Lys	Asp	Asn	Thr
				230					235					240
Val	Val	Lys	Thr	Phe	Ser	Leu	Ala	Asn	Thr	His	Ala	Asp	Asp	Ser
				245					250					255
Ala	Ala	Met	Ala	Ile	Ala	Glu	Met	Leu	Lys	Val	Asn	Glu	His	Ile
				260					265					270
Thr	Asn	Val	Asn	Val	Glu	Ser	Asn	Phe	Ile	Thr	Gly	Lys	Gly	Ile
				275					280					285
Leu	Ala	Ile	Met	Arg	Ala	Leu	Gln	His	Asn	Thr	Val	Leu	Thr	Glu
				290					295					300
Leu	Arg	Phe	His	Asn	Gln	Arg	His	Ile	Met	Gly	Ser	Gln	Val	Glu
				305					310					315
Met	Glu	Ile	Val	Lys	Leu	Leu	Lys	Glu	Asn	Thr	Thr	Leu	Leu	Arg
				320					325					330
Leu	Gly	Tyr	His	Phe	Glu	Leu	Pro	Gly	Pro	Arg	Met	Ser	Met	Thr
				335					340					345
Ser	Ile	Leu	Thr	Arg	Asn	Met	Asp	Lys	Gln	Arg	Gln	Lys	Arg	Leu
				350					355					360
Gln	Glu	Gln	Lys	Gln	Gln	Glu	Gly	Tyr	Asp	Gly	Gly	Pro	Asn	Leu
				365					370					375
Arg	Thr	Lys	Val	Trp	Gln	Arg	Gly	Thr	Pro	Ser	Ser	Ser	Pro	Tyr

PB-0009-1 CIP

	380		385		390
Val Ser Pro Arg	His Ser Pro Trp Ser	Ser Pro Lys Leu Pro	Lys		
	395		400		405
Lys Val Gln Thr	Val Arg Ser Arg Pro	Leu Ser Pro Val Ala	Thr		
	410		415		420
Pro Pro Pro Pro	Pro Pro Pro Pro Pro	Pro Pro Pro Pro Ser	Ser		
	425		430		435
Gln Arg Leu Pro	Pro Pro Pro Pro Pro	Pro Pro Pro Pro Leu	Pro		
	440		445		450
Glu Lys Lys Leu	Ile Thr Arg Asn Ile	Ala Glu Val Ile Lys	Gln		
	455		460		465
Gln Glu Ser Ala	Gln Arg Ala Leu Gln	Asn Gly Gln Lys Lys	Lys		
	470		475		480
Lys Gly Lys Lys	Val Lys Lys Gln Pro	Asn Ser Ile Leu Lys	Glu		
	485		490		495
Ile Lys Asn Ser	Leu Arg Ser Val Gln	Glu Lys Lys Met Glu	Asp		
	500		505		510
Ser Ser Arg Pro	Ser Thr Pro Gln Arg	Ser Ala His Glu Asn	Leu		
	515		520		525
Met Glu Ala Ile	Arg Gly Ser Ser Ile	Lys Gln Leu Lys Arg	Val		
	530		535		540
Ser Asn Gln Arg	Thr Asp Ile Gly Ala	Gln Ile Lys			
	545		550		

<210> 51

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2837330CD1

<400> 51

Met Ser Leu Leu Trp	Thr Pro Lys Gly Lys	Met Arg Leu Gln Ala	
1	5	10	15
Glu Lys Leu Asn Lys	Ala Pro Gln Gly Gly	Ile Gly Thr Ala Ala	
	20	25	30
Val Arg Pro Lys Ser	Leu Ala Ile Ser Ser	Ser Leu Val Ser Asp	
	35	40	45
Val Val Arg Pro Lys	Thr Gln Gly Thr Asp	Leu Lys Thr Ser Ser	
	50	55	60
His Pro Glu Met Leu	His Gly Met Ala Pro	Gln Gln Lys His Gly	
	65	70	75
Gln Gln Tyr Lys Thr	Lys Ser Ser Tyr Lys	Ala Phe Ala Ala Phe	
	80	85	90
Pro Thr Asn Thr Leu	Leu Leu Glu Gln Lys	Thr Pro Thr Thr Leu	
	95	100	105
Pro Arg Ala Ala Gly	Arg Glu Thr Lys Tyr	Ala Asn Leu Ser Ser	
	110	115	120
Pro Thr Ser Thr Val	Ser Glu Ser Gln Leu	Thr Lys Pro Gly Val	
	125	130	135
Ile Arg Pro Val Pro	Val Lys Ser Arg Ile	Leu Leu Lys Lys Glu	
	140	145	150
Glu Glu Val Tyr Glu	Pro Asn Pro Phe Ser	Lys Tyr Leu Glu Asp	
	155	160	165

PB-0009-1 CIP

Asn	Ser	Asp	Leu	Phe	Ser	Glu	Gln	Asp	Val	Thr	Val	Pro	Pro	Lys
				170					175					180
Pro	Val	Ser	Leu	His	Pro	Leu	Tyr	Gln	Thr	Lys	Leu	Tyr	Pro	Pro
				185					190					195
Ala	Lys	Ser	Leu	Leu	His	Pro	Gln	Thr	Leu	Ser	His	Ala	Asp	Cys
				200					205					210
Leu	Ala	Pro	Gly	Pro	Phe	Ser	His	Leu	Ser	Phe	Ser	Leu	Ser	Asp
				215					220					225
Glu	Gln	Glu	Asn	Ser	His	Thr	Leu	Leu	Ser	His	Asn	Ala	Cys	Asn
				230					235					240
Lys	Leu	Ser	His	Pro	Met	Val	Ala	Ile	Pro	Glu	His	Glu	Ala	Leu
				245					250					255
Asp	Ser	Lys	Glu	Gln										
				260										

<210> 52

<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737459CD1

<400> 52

Met	Ser	Ala	Asn	Ser	Ser	Arg	Val	Gly	Gln	Leu	Leu	Leu	Gln	Gly
1				5					10					15
Ser	Ala	Cys	Ile	Arg	Trp	Lys	Gln	Asp	Val	Glu	Gly	Ala	Ile	Tyr
				20					25					30
His	Leu	Ala	Asn	Cys	Leu	Leu	Leu	Leu	Gly	Phe	Met	Gly	Gly	Ser
				35					40					45
Gly	Val	Tyr	Gly	Cys	Phe	Tyr	Leu	Phe	Gly	Phe	Leu	Ser	Ala	Gly
				50					55					60
Tyr	Leu	Cys	Cys	Val	Leu	Trp	Gly	Trp	Phe	Ser	Ala	Cys	Gly	Leu
				65					70					75
Asp	Ile	Val	Leu	Trp	Ser	Phe	Leu	Leu	Ala	Val	Val	Cys	Leu	Leu
				80					85					90
Gln	Leu	Ala	His	Leu	Val	Tyr	Arg	Leu	Arg	Glu	Asp	Thr	Leu	Pro
				95					100					105
Glu	Glu	Phe	Asp	Leu	Leu	Tyr	Lys	Thr	Leu	Cys	Leu	Pro	Leu	Gln
				110					115					120
Val	Pro	Leu	Gln	Thr	Tyr	Lys	Glu	Ile	Val	His	Cys	Cys	Glu	Glu
				125					130					135
Gln	Val	Leu	Thr	Leu	Ala	Thr	Glu	Gln	Thr	Tyr	Ala	Val	Glu	Gly
				140					145					150
Glu	Thr	Pro	Ile	Asn	Arg	Leu	Ser	Leu	Leu	Leu	Ser	Gly	Arg	Val
				155					160					165
Arg	Val	Ser	Gln	Asp	Gly	Gln	Phe	Leu	His	Tyr	Ile	Phe	Pro	Tyr
				170					175					180
Gln	Phe	Met	Asp	Ser	Pro	Glu	Trp	Glu	Ser	Leu	Gln	Pro	Ser	Glu
				185					190					195
Glu	Gly	Val	Phe	Gln	Val	Thr	Leu	Thr	Ala	Glu	Thr	Ser	Cys	Ser
				200					205					210
Tyr	Ile	Ser	Trp	Pro	Arg	Lys	Ser	Leu	His	Leu	Leu	Leu	Thr	Lys
				215					220					225
Glu	Arg	Tyr	Ile	Ser	Cys	Leu	Phe	Ser	Ala	Leu	Leu	Gly	Tyr	Asp

PB-0009-1 CIP

	230		235		240
Ile Ser Glu Lys	Leu Tyr Thr Leu Asn	Asp Lys Leu Phe Ala	Lys		
	245		250		255
Phe Gly Leu Arg	Phe Asp Ile Arg Leu	Pro Ser Leu Tyr His	Val		
	260		265		270
Leu Gly Pro Thr	Ala Ala Asp Ala Gly	Pro Glu Ser Glu Lys	Gly		
	275		280		285
Asp Glu Glu Val	Cys Glu Pro Ala Val	Ser Pro Pro Gln Ala	Thr		
	290		295		300
Pro Thr Ser Leu	Gln Gln Thr Pro Pro	Cys Ser Thr Pro Pro	Ala		
	305		310		315
Thr Thr Asn Phe	Pro Ala Pro Pro Thr	Arg Ala Arg Leu Ser	Arg		
	320		325		330
Pro Asp Ser Gly	Ile Leu Ala Ser Arg	Ile Pro Leu Gln Ser	Tyr		
	335		340		345
Ser Gln Val Ile	Ser Arg Gly Gln Ala	Pro Leu Ala Pro Thr	His		
	350		355		360
Thr Pro Glu Leu					

<210> 53

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 058201CD1

<400> 53

Met Glu Cys Leu Val	Ala Asp Lys Gln Asn	Phe His Lys Ser Cys
1	5	10
Phe Arg Cys His His	Cys Asn Ser Lys Leu	Ser Leu Gly Asn Tyr
20	25	30
Ala Ser Leu His Gly	Gln Ile Tyr Cys Lys	Pro His Phe Lys Gln
35	40	45
Leu Phe Lys Ser Lys	Gly Asn Tyr Asp Glu	Gly Phe Gly His Lys
50	55	60
Gln His Lys Asp Arg	Trp Asn Cys Lys Asn	Gln Ser Arg Ser Val
65	70	75
Asp Phe Ile Pro Asn	Glu Glu Pro Asn Met	Cys Lys Asn Ile Ala
80	85	90
Glu Asn Thr Leu Val	Pro Gly Asp Arg Asn	Glu His Leu Asp Ala
95	100	105
Gly Asn Ser Glu Gly	Gln Arg Asn Asp Leu	Arg Lys Leu Gly Glu
110	115	120
Arg Gly Lys Leu Lys	Val Ile Trp Pro Pro	Ser Lys Glu Ile Pro
125	130	135
Lys Lys Thr Leu Pro	Phe Glu Glu Glu Leu	Lys Met Ser Lys Pro
140	145	150
Lys Trp Pro Pro Glu	Met Thr Thr Leu Leu	Ser Pro Glu Phe Lys
155	160	165
Ser Glu Ser Leu Leu	Glu Asp Val Arg Thr	Pro Glu Asn Lys Gly
170	175	180
Gln Arg Gln Asp His	Phe Pro Phe Leu Gln	Pro Tyr Leu Gln Ser
185	190	195

PB-0009-1 CIP

Thr	His	Val	Cys	Gln	Lys	Glu	Asp	Val	Ile	Gly	Ile	Lys	Glu	Met
				200					205					210
Lys	Met	Pro	Glu	Gly	Arg	Lys	Asp	Glu	Lys	Lys	Glu	Gly	Arg	Lys
				215					220					225
Asn	Val	Gln	Asp	Arg	Pro	Ser	Glu	Ala	Glu	Asp	Thr	Lys	Ser	Asn
				230					235					240
Arg	Lys	Ser	Ala	Met	Asp	Leu	Asn	Asp	Asn	Asn	Asn	Val	Ile	Val
				245					250					255
Gln	Ser	Ala	Glu	Lys	Glu	Lys	Asn	Glu	Lys	Thr	Asn	Gln	Thr	Asn
				260					265					270
Gly	Ala	Glu	Val	Leu	Gln	Val	Thr	Asn	Thr	Asp	Asp	Glu	Met	Met
				275					280					285
Pro	Glu	Asn	His	Lys	Glu	Asn	Leu	Asn	Lys	Asn	Asn	Asn	Asn	Asn
				290					295					300
Tyr	Val	Ala	Val	Ser	Tyr	Leu	Asn	Asn	Cys	Arg	Gln	Lys	Thr	Ser
				305					310					315
Ile	Leu	Glu	Phe	Leu	Asp	Leu	Leu	Pro	Leu	Ser	Ser	Glu	Ala	Asn
				320					325					330
Asp	Thr	Ala	Asn	Glu	Tyr	Glu	Ile	Glu	Lys	Leu	Glu	Asn	Thr	Ser
				335					340					345
Arg	Ile	Ser	Glu	Leu	Leu	Gly	Ile	Phe	Glu	Ser	Glu	Lys	Thr	Tyr
				350					355					360
Ser	Arg	Asn	Val	Leu	Ala	Met	Ala	Leu	Lys	Lys	Gln	Thr	Asp	Arg
				365					370					375
Ala	Ala	Ala	Gly	Ser	Pro	Val	Gln	Pro	Ala	Pro	Lys	Pro	Ser	Leu
				380					385					390
Ser	Arg	Gly	Leu	Met	Val	Lys	Gly	Gly	Ser	Ser	Ile	Ile	Ser	Pro
				395					400					405
Asp	Thr	Asn	Leu	Leu	Asn	Ile	Lys	Gly	Ser	His	Ser	Lys	Ser	Lys
				410					415					420
Asn	Leu	His	Phe	Phe	Phe	Ser	Asn	Thr	Val	Lys	Ile	Thr	Ala	Phe
				425					430					435
Ser	Lys	Lys	Asn	Glu	Asn	Ile	Phe	Asn	Cys	Asp	Leu	Ile	Asp	Ser
				440					445					450
Val	Asp	Gln	Ile	Lys	Asn	Met	Pro	Cys	Leu	Asp	Leu	Arg	Glu	Phe
				455					460					465
Gly	Lys	Asp	Val	Lys	Pro	Trp	His	Val	Glu	Thr	Thr	Glu	Ala	Ala
				470					475					480
Arg	Asn	Asn	Glu	Asn	Thr	Gly	Phe	Asp	Ala	Leu	Ser	His	Glu	Cys
				485					490					495
Thr	Ala	Lys	Pro	Leu	Phe	Pro	Arg	Val	Glu	Val	Gln	Ser	Glu	Gln
				500					505					510
Leu	Thr	Val	Glu	Glu	Gln	Ile	Lys	Arg	Asn	Arg	Cys	Tyr	Ser	Asp
				515					520					525
Thr	Glu													

<210> 54

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5449893CD1

PB-0009-1 CIP

<400> 54

Met	Ser	Gln	Ala	Gly	Ala	Gln	Glu	Ala	Pro	Ile	Lys	Lys	Lys	Arg
1				5					10					15
Pro	Pro	Val	Lys	Glu	Glu	Asp	Leu	Lys	Gly	Ala	Arg	Gly	Asn	Leu
				20					25					30
Thr	Lys	Asn	Gln	Glu	Ile	Lys	Ser	Lys	Thr	Tyr	Gln	Val	Met	Arg
				35					40					45
Glu	Cys	Glu	Gln	Ala	Gly	Ser	Ala	Ala	Pro	Ser	Val	Phe	Ser	Arg
				50					55					60
Thr	Arg	Thr	Gly	Thr	Glu	Thr	Val	Phe	Glu	Lys	Pro	Lys	Ala	Gly
				65					70					75
Pro	Thr	Lys	Ser	Val	Phe	Gly								
				80										

<210> 55

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282977CD1

<400> 55

Met	Asn	Val	Gln	Pro	Cys	Ser	Arg	Cys	Gly	Tyr	Gly	Val	Tyr	Pro
1				5					10					15
Ala	Glu	Lys	Ile	Ser	Cys	Ile	Asp	Gln	Ile	Trp	His	Lys	Ala	Cys
				20					25					30
Phe	His	Cys	Glu	Val	Cys	Lys	Met	Met	Leu	Ser	Val	Asn	Asn	Phe
				35					40					45
Val	Ser	His	Gln	Lys	Lys	Pro	Tyr	Cys	His	Ala	His	Asn	Pro	Lys
				50					55					60
Asn	Asn	Thr	Phe	Thr	Ser	Val	Tyr	His	Thr	Pro	Leu	Asn	Leu	Asn
				65					70					75
Val	Arg	Thr	Phe	Pro	Glu	Ala	Ile	Ser	Gly	Ile	His	Asp	Gln	Glu
				80					85					90
Asp	Gly	Glu	Gln	Cys	Lys	Ser	Val	Phe	His	Trp	Asp	Met	Lys	Ser
				95					100					105
Lys	Asp	Lys	Glu	Gly	Ala	Pro	Asn	Arg	Gln	Pro	Leu	Ala	Asn	Glu
				110					115					120
Arg	Ala	Tyr	Trp	Thr	Gly	Tyr	Gly	Glu	Gly	Asn	Ala	Trp	Cys	Pro
				125					130					135
Gly	Ala	Leu	Pro	Asp	Pro	Glu	Ile	Val	Arg	Met	Val	Glu	Ala	Arg
				140					145					150
Lys	Ser	Leu	Gly	Glu	Glu	Tyr	Thr	Glu	Asp	Tyr	Glu	Gln	Pro	Arg
				155					160					165
Gly	Lys	Gly	Ser	Phe	Pro	Ala	Met	Ile	Thr	Pro	Ala	Tyr	Gln	Arg
				170					175					180
Ala	Lys	Lys	Ala	Asn	Gln	Leu	Ala	Ser	Gln	Val	Glu	Tyr	Lys	Arg
				185					190					195
Gly	His	Asp	Glu	Arg	Ile	Ser	Arg	Phe	Ser	Thr	Val	Ala	Asp	Thr
				200					205					210
Pro	Glu	Leu	Leu	Arg	Ser	Lys	Ala	Gly	Ala	Gln	Leu	Gln	Ser	Asp
				215					220					225
Val	Arg	Tyr	Thr	Glu	Asp	Tyr	Glu	Gln	Gln	Arg	Gly	Lys	Gly	Ser
				230					235					240

PB-0009-1 CIP

Phe	Pro	Ala	Met	Ile	Thr	Pro	Ala	Tyr	Gln	Ile	Ala	Lys	Arg	Ala	
				245					250					255	
Asn	Glu	Leu	Ala	Ser	Asp	Val	Arg	Tyr	His	Gln	Gln	Tyr	Gln	Lys	
				260					265					270	
Glu	Met	Arg	Gly	Met	Ala	Gly	Pro	Ala	Ile	Gly	Ala	Glu	Gly	Ile	
				275					280					285	
Leu	Thr	Arg	Glu	Cys	Ala	Asp	Gln	Tyr	Gly	His	Gly	Tyr	Pro	Glu	
				290					295					300	
Glu	Tyr														

<210> 56

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3178454CD1

<400> 56

Met	Asn	Thr	Ser	Phe	Ser	Asp	Ile	Glu	Leu	Leu	Glu	Asp	Ser	Gly	
1				5					10					15	
Ile	Pro	Thr	Glu	Ala	Phe	Leu	Ala	Ser	Cys	Cys	Ala	Val	Val	Pro	
				20					25					30	
Val	Leu	Asp	Lys	Leu	Gly	Pro	Thr	Val	Phe	Ala	Pro	Val	Lys	Met	
				35					40					45	
Asp	Leu	Val	Glu	Asn	Ile	Lys	Lys	Val	Asn	Gln	Lys	Tyr	Ile	Thr	
				50					55					60	
Asn	Lys	Glu	Glu	Phe	Thr	Thr	Leu	Gln	Lys	Ile	Val	Leu	His	Glu	
				65					70					75	
Val	Glu	Ala	Asp	Val	Ala	Gln	Val	Arg	Asn	Ser	Ala	Thr	Glu	Ala	
				80					85					90	
Leu	Leu	Trp	Leu	Lys	Arg	Gly	Leu	Lys	Phe	Leu	Lys	Gly	Phe	Leu	
				95					100					105	
Thr	Glu	Val	Lys	Asn	Gly	Glu	Lys	Asp	Ile	Gln	Thr	Ala	Leu	Asn	
				110					115					120	
Asn	Ala	Tyr	Gly	Lys	Thr	Leu	Arg	Gln	His	His	Gly	Trp	Val	Val	
				125					130					135	
Arg	Gly	Val	Phe	Ala	Leu	Ala	Leu	Arg	Ala	Thr	Pro	Ser	Tyr	Glu	
				140					145					150	
Asp	Phe	Val	Ala	Ala	Leu	Thr	Val	Lys	Glu	Gly	Asp	His	Arg	Lys	
				155					160					165	
Glu	Ala	Phe	Ser	Ile	Gly	Met	Gln	Arg	Asp	Leu	Ser	Leu	Tyr	Leu	
				170					175					180	
Pro	Ala	Met	Lys	Lys	Gln	Met	Ala	Ile	Leu	Asp	Ala	Leu			
				185					190						

<210> 57

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4152861CD1

PB-0009-1 CIP

<400> 57

Met	Ser	Asn	Gly	Tyr	Arg	Thr	Leu	Ser	Gln	His	Leu	Asn	Asp	Leu
1				5					10					15
Lys	Lys	Glu	Asn	Phe	Ser	Leu	Lys	Leu	Arg	Ile	Tyr	Phe	Leu	Glu
			20						25					30
Glu	Arg	Met	Gln	Gln	Lys	Tyr	Glu	Ala	Ser	Arg	Glu	Asp	Ile	Tyr
			35						40					45
Lys	Arg	Asn	Thr	Glu	Leu	Lys	Val	Glu	Val	Glu	Ser	Leu	Lys	Arg
			50						55					60
Glu	Leu	Gln	Asp	Lys	Lys	Gln	His	Leu	Asp	Lys	Thr	Trp	Ala	Asp
			65						70					75
Val	Glu	Asn	Leu	Asn	Ser	Gln	Asn	Glu	Ala	Glu	Leu	Arg	Arg	Gln
			80						85					90
Phe	Glu	Glu	Arg	Gln	Gln	Glu	Thr	Glu	His	Val	Tyr	Glu	Leu	Leu
			95						100					105
Glu	Asn	Lys	Met	Gln	Leu	Leu	Gln	Glu	Glu	Ser	Arg	Leu	Ala	Lys
			110						115					120
Asn	Glu	Ala	Ala	Arg	Met	Ala	Ala	Leu	Val	Glu	Ala	Glu	Lys	Glu
			125						130					135
Cys	Asn	Leu	Glu	Leu	Ser	Glu	Lys	Leu	Lys	Gly	Val	Thr	Lys	Asn
			140						145					150
Trp	Glu	Asp	Val	Pro	Gly	Asp	Gln	Val	Lys	Pro	Asp	Gln	Tyr	Thr
			155						160					165
Glu	Ala	Leu	Ala	Gln	Arg	Asp	Lys	Ile						
			170											

<210> 58

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009303CD1

<400> 58

Met	Val	Gly	Val	Arg	Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg
1				5					10					15
Gly	Ser	Val	Asp	Trp	Ala	Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu
			20						25					30
Glu	Gly	Thr	Met	Glu	Glu	Ala	Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly
			35						40					45
Asp	Ala	Phe	Val	Thr	Glu	Glu	Ser	Gln	Asp	Thr	His	Ser	Leu	Gly
			50						55					60
Asp	Arg	Asp	Pro	Lys	Ile	Leu	Thr	His	Asn	Gly	Arg	Met	Leu	Thr
			65						70					75
Leu	Ala	Asp	Leu	Glu	Asp	Tyr	Val	Pro	Gly	Glu	Gly	Glu	Thr	Phe
			80						85					90
His	Cys	Gly	Gly	Pro	Gly	Pro	Gly	Ala	Pro	Asp	Asp	Pro	Pro	Cys
			95						100					105
Glu	Val	Ser	Val	Ile	Gln	Arg	Glu	Ile	Gly	Glu	Pro	Thr	Val	Gly
			110						115					120
Gln	Pro	Val	Leu	Leu	Ser	Val	Gly	His	Ala	Leu	Gly	Pro	Arg	Gly
			125						130					135
Pro	Leu	Gly	Leu	Phe	Arg	Pro	Glu	Pro	Arg	Gly	Ala	Ser	Pro	Pro
			140						145					150

PB-0009-1 CIP

Gly	Pro	Gln	Val	Arg	Ser	Leu	Glu	Gly	Thr	Ser	Phe	Leu	Leu	Arg
				155					160					165
Glu	Ala	Pro	Ala	Arg	Pro	Val	Gly	Ser	Ala	Pro	Trp	Thr	Gln	Ser
				170					175					180
Phe	Cys	Thr	Arg	Ile	Arg	Arg	Ser	Ala	Asp	Ser	Gly	Gln	Ser	Ser
				185					190					195
Phe	Thr	Thr	Glu	Leu	Ser	Thr	Gln	Thr	Val	Asn	Phe	Gly	Thr	Val
				200					205					210
Gly	Glu	Thr	Val	Thr	Leu	His	Ile	Cys	Pro	Asp	Arg	Asp	Gly	Asp
				215					220					225
Glu	Ala	Ala	Gln	Pro										
				230										

<210> 59

<211> 915

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4151935CD1

<400> 59

Met	Pro	Leu	Phe	Glu	Ala	Glu	Glu	Gly	Val	Leu	Ser	Arg	Thr	Gln
1				5					10					15
Ile	Phe	Pro	Thr	Thr	Ile	Lys	Val	Ile	Asp	Pro	Glu	Phe	Leu	Glu
				20					25					30
Glu	Pro	Pro	Ala	Leu	Ala	Phe	Leu	Tyr	Lys	Asp	Leu	Tyr	Glu	Glu
				35					40					45
Ala	Val	Gly	Glu	Lys	Lys	Lys	Glu	Glu	Glu	Thr	Ala	Ser	Glu	Gly
				50					55					60
Asp	Ser	Val	Asn	Ser	Glu	Ala	Ser	Phe	Pro	Ser	Arg	Asn	Ser	Asp
				65					70					75
Thr	Asp	Asp	Gly	Thr	Gly	Ile	Tyr	Phe	Glu	Lys	Tyr	Ile	Leu	Lys
				80					85					90
Asp	Asp	Ile	Leu	His	Asp	Thr	Ser	Leu	Thr	Gln	Lys	Asp	Gln	Gly
				95					100					105
Gln	Gly	Leu	Glu	Glu	Lys	Arg	Val	Gly	Lys	Asp	Asp	Ser	Tyr	Gln
				110					115					120
Pro	Ile	Ala	Ala	Glu	Gly	Glu	Ile	Trp	Gly	Lys	Phe	Gly	Thr	Ile
				125					130					135
Cys	Arg	Glu	Lys	Ser	Leu	Glu	Glu	Gln	Lys	Gly	Val	Tyr	Gly	Glu
				140					145					150
Gly	Glu	Ser	Val	Asp	His	Val	Glu	Thr	Val	Gly	Asn	Val	Ala	Met
				155					160					165
Gln	Lys	Lys	Ala	Pro	Ile	Thr	Glu	Asp	Val	Arg	Val	Ala	Thr	Gln
				170					175					180
Lys	Ile	Ser	Tyr	Ala	Val	Pro	Phe	Glu	Asp	Thr	His	His	Val	Leu
				185					190					195
Glu	Arg	Ala	Asp	Glu	Ala	Gly	Ser	His	Gly	Asn	Glu	Val	Gly	Asn
				200					205					210
Ala	Ser	Pro	Glu	Val	Asn	Leu	Asn	Val	Pro	Val	Gln	Val	Ser	Phe
				215					220					225
Pro	Glu	Glu	Glu	Phe	Ala	Ser	Gly	Ala	Thr	His	Val	Gln	Glu	Thr
				230					235					240
Ser	Leu	Glu	Glu	Pro	Lys	Ile	Leu	Val	Pro	Pro	Glu	Pro	Ser	Glu

	245		250		255
Glu Arg Leu Arg	Asn Ser Pro Val Gln	Asp Glu Tyr Glu Phe Thr			
	260		265		270
Glu Ser Leu His	Asn Glu Val Val Pro	Gln Asp Ile Leu Ser Glu			
	275		280		285
Glu Leu Ser Ser	Glu Ser Thr Pro Glu	Asp Val Leu Ser Gln Gly			
	290		295		300
Lys Glu Ser Phe	Glu His Ile Ser Glu	Asn Glu Phe Ala Ser Glu			
	305		310		315
Ala Glu Gln Ser	Thr Pro Ala Glu Gln	Lys Glu Leu Gly Ser Glu			
	320		325		330
Arg Lys Glu Glu	Asp Gln Leu Ser Ser	Glu Val Val Thr Glu Lys			
	335		340		345
Ala Gln Lys Glu	Leu Lys Lys Ser Gln	Ile Asp Thr Tyr Cys Tyr			
	350		355		360
Thr Cys Lys Cys	Pro Ile Ser Ala Thr	Asp Lys Val Phe Gly Thr			
	365		370		375
His Lys Asp His	Glu Val Ser Thr Leu	Asp Thr Ala Ile Ser Ala			
	380		385		390
Val Lys Val Gln	Leu Ala Glu Phe Leu	Glu Asn Leu Gln Glu Lys			
	395		400		405
Ser Leu Arg Ile	Glu Ala Phe Val Ser	Glu Ile Glu Ser Phe Phe			
	410		415		420
Asn Thr Ile Glu	Glu Asn Cys Ser Lys	Asn Glu Lys Arg Leu Glu			
	425		430		435
Glu Gln Asn Glu	Glu Met Met Lys Lys	Val Leu Ala Gln Tyr Asp			
	440		445		450
Glu Lys Ala Gln	Ser Phe Glu Glu Val	Lys Lys Lys Lys Met Glu			
	455		460		465
Phe Leu His Glu	Gln Met Val His Phe	Leu Gln Ser Met Asp Thr			
	470		475		480
Ala Lys Asp Thr	Leu Glu Thr Ile Val	Arg Glu Ala Glu Glu Leu			
	485		490		495
Asp Glu Ala Val	Phe Leu Thr Ser Phe	Glu Glu Ile Asn Glu Arg			
	500		505		510
Leu Leu Ser Ala	Met Glu Ser Thr Ala	Ser Leu Glu Lys Met Pro			
	515		520		525
Ala Ala Phe Ser	Leu Phe Glu His Tyr	Asp Asp Ser Ser Ala Arg			
	530		535		540
Ser Asp Gln Met	Leu Lys Gln Val Ala	Val Pro Gln Pro Pro Arg			
	545		550		555
Leu Glu Pro Gln	Glu Pro Asn Ser Ala	Thr Ser Thr Thr Ile Ala			
	560		565		570
Val Tyr Trp Ser	Met Asn Lys Glu Asp	Val Ile Asp Ser Phe Gln			
	575		580		585
Val Tyr Cys Met	Glu Glu Pro Gln Asp	Asp Gln Glu Val Asn Glu			
	590		595		600
Leu Val Glu Glu	Tyr Arg Leu Thr Val	Lys Glu Ser Tyr Cys Ile			
	605		610		615
Phe Glu Asp Leu	Glu Pro Asp Arg Cys	Tyr Gln Val Trp Val Met			
	620		625		630
Ala Val Asn Phe	Thr Gly Cys Ser Leu	Pro Ser Glu Arg Ala Ile			
	635		640		645
Phe Arg Thr Ala	Pro Ser Thr Pro Val	Ile Arg Ala Glu Asp Cys			
	650		655		660
Thr Val Cys Trp	Asn Thr Ala Thr Ile	Arg Trp Arg Pro Thr Thr			

PB-0009-1 CIP

	665		670		675
Pro Glu Ala Thr	Glu Thr Tyr Thr Leu	Glu Tyr Cys Arg Gln His			
	680		685		690
Ser Pro Glu Gly	Glu Gly Leu Arg Ser	Phe Ser Gly Ile Lys Gly			
	695		700		705
Leu Gln Leu Lys	Val Asn Leu Gln Pro	Asn Asp Asn Tyr Phe Phe			
	710		715		720
Tyr Val Arg Ala	Ile Asn Ala Phe Gly	Thr Ser Glu Gln Ser Glu			
	725		730		735
Ala Ala Leu Ile	Ser Thr Arg Gly Thr	Arg Phe Leu Leu Leu Arg			
	740		745		750
Glu Thr Ala His	Pro Ala Leu His Ile	Ser Ser Ser Gly Thr Val			
	755		760		765
Ile Ser Phe Gly	Glu Arg Arg Arg Leu	Thr Glu Ile Pro Ser Val			
	770		775		780
Leu Gly Glu Glu	Leu Pro Ser Cys Gly	Gln His Tyr Trp Glu Thr			
	785		790		795
Thr Val Thr Asp	Cys Pro Ala Tyr Arg	Leu Gly Ile Cys Ser Ser			
	800		805		810
Ser Ala Val Gln	Ala Gly Ala Leu Gly	Gln Gly Glu Thr Ser Trp			
	815		820		825
Tyr Met His Cys	Ser Glu Pro Gln Arg	Tyr Thr Phe Phe Tyr Ser			
	830		835		840
Gly Ile Val Ser	Asp Val His Val Thr	Glu Arg Pro Ala Arg Val			
	845		850		855
Gly Ile Leu Leu	Asp Tyr Asn Asn Gln	Arg Leu Ile Phe Ile Asn			
	860		865		870
Ala Glu Ser Glu	Gln Leu Leu Phe Ile	Ile Arg His Arg Phe Asn			
	875		880		885
Glu Gly Val His	Pro Ala Phe Ala Leu	Glu Lys Pro Gly Lys Cys			
	890		895		900
Thr Leu His Leu	Gly Ile Glu Pro Pro	Asp Ser Val Arg His Lys			
	905		910		915

<210> 60

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3012947CD1

<400> 60

Met Ala Leu Glu Gln Lys Glu Leu Asp Gln Glu Pro Gly Ala Gly		
1	5	10
Leu Asp Ser Leu Ile Arg Thr Gly Ser Ser Cys Gln Asn Pro Gly		
	20	25
Cys Asp Ala Val Tyr Gln Gly Pro Glu Ser Asp Ala Thr Pro Cys		
	35	40
Thr Tyr His Pro Gly Ala Pro Arg Phe His Glu Gly Met Lys Ser		
	50	55
Trp Ser Cys Cys Gly Ile Gln Thr Leu Asp Phe Gly Ala Phe Leu		
	65	70
Ala Gln Pro Gly Cys Arg Val Gly Arg His Asp Trp Gly Lys Gln		

PB-0009-1 CIP

	80		85		90									
Leu	Pro	Ala	Ser	Cys	Arg	His	Asp	Trp	His	Gln	Thr	Asp	Ser	Leu
				95					100					105
Val	Val	Val	Thr	Val	Tyr	Gly	Gln	Ile	Pro	Leu	Pro	Ala	Phe	Asn
				110					115					120
Trp	Val	Lys	Ala	Ser	Gln	Thr	Glu	Leu	His	Val	His	Ile	Val	Phe
				125					130					135
Asp	Gly	Asn	Arg	Val	Phe	Gln	Ala	Gln	Met	Lys	Leu	Trp	Gly	Val
				140					145					150
Ser	Glu	Asp	Gln	Gly	Thr	Gln	Glu	Trp	Glu	Ala	Asp	Gly		
				155					160					

<210> 61

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3009806CD1

<400> 61

Met	Glu	Asn	Val	Glu	Val	Phe	Thr	Ala	Glu	Gly	Lys	Gly	Arg	Gly
1				5					10					15
Leu	Lys	Ala	Thr	Lys	Glu	Phe	Trp	Ala	Ala	Asp	Ile	Ile	Phe	Ala
				20					25					30
Glu	Arg	Ala	Tyr	Ser	Ala	Val	Val	Phe	Asp	Ser	Leu	Val	Asn	Phe
				35					40					45
Val	Cys	His	Thr	Cys	Phe	Lys	Arg	Gln	Glu	Lys	Leu	His	Arg	Cys
				50					55					60
Gly	Gln	Cys	Lys	Phe	Ala	His	Tyr	Cys	Asp	Arg	Thr	Cys	Gln	Lys
				65					70					75
Asp	Ala	Trp	Leu	Asn	His	Lys	Asn	Glu	Cys	Ser	Ala	Ile	Lys	Arg
				80					85					90
Tyr	Gly	Lys	Val	Pro	Asn	Glu	Asn	Ile	Arg	Leu	Ala	Ala	Arg	Ile
				95					100					105
Met	Trp	Arg	Val	Glu	Arg	Glu	Gly	Thr	Gly	Leu	Thr	Glu	Gly	Cys
				110					115					120
Leu	Val	Ser	Val	Asp	Asp	Leu	Gln	Asn	His	Val	Glu	His	Phe	Gly
				125					130					135
Glu	Glu	Glu	Gln	Lys	Asp	Leu	Arg	Val	Asp	Val	Asp	Thr	Phe	Leu
				140					145					150
Gln	Tyr	Trp	Pro	Ala	Gln	Ser	Gln	Gln	Phe	Ser	Met	Gln	Tyr	Ile
				155					160					165
Ser	His	Ile	Phe	Gly	Val	Ile	Asn	Cys	Asn	Gly	Phe	Thr	Leu	Ser
				170					175					180
Asp	Gln	Arg	Gly	Leu	His	Ser	Val	Gly	Arg	Lys	Asp	Leu	Ser	Pro
				185					190					195
Pro	Gly	Ala	Gly	Glu	Pro									
				200										

<210> 62

<211> 329

<212> PRT

<213> Homo sapiens

PB-0009-1 CIP

<220>

<221> misc_feature

<223> Incyte ID No: 5578191CD1

<400> 62

Met	Glu	Asp	Ser	Glu	Ala	Val	Gln	Arg	Ala	Thr	Ala	Leu	Ile	Glu
1				5					10					15
Gln	Arg	Leu	Ala	Gln	Glu	Glu	Glu	Asn	Glu	Lys	Leu	Arg	Gly	Asp
				20					25					30
Thr	Arg	Gln	Lys	Leu	Pro	Met	Asp	Leu	Leu	Val	Leu	Glu	Asp	Glu
				35					40					45
Lys	His	His	Gly	Ala	Gln	Ser	Ala	Ala	Leu	Gln	Lys	Val	Lys	Gly
				50					55					60
Gln	Glu	Arg	Val	Arg	Lys	Thr	Ser	Leu	Asp	Leu	Arg	Arg	Glu	Ile
				65					70					75
Ile	Asp	Val	Gly	Gly	Ile	Gln	Asn	Leu	Ile	Glu	Leu	Arg	Lys	Lys
				80					85					90
Arg	Lys	Gln	Lys	Lys	Arg	Asp	Ala	Leu	Ala	Ala	Ser	His	Glu	Pro
				95					100					105
Pro	Pro	Glu	Pro	Glu	Glu	Ile	Thr	Gly	Pro	Val	Asp	Glu	Glu	Thr
				110					115					120
Phe	Leu	Lys	Ala	Ala	Val	Glu	Gly	Lys	Met	Lys	Val	Ile	Glu	Lys
				125					130					135
Phe	Leu	Ala	Asp	Gly	Gly	Ser	Ala	Asp	Thr	Cys	Asp	Gln	Phe	Arg
				140					145					150
Arg	Thr	Ala	Leu	His	Arg	Ala	Ser	Leu	Glu	Gly	His	Met	Glu	Ile
				155					160					165
Leu	Glu	Lys	Leu	Leu	Asp	Asn	Gly	Ala	Thr	Val	Asp	Phe	Gln	Asp
				170					175					180
Arg	Leu	Asp	Cys	Thr	Ala	Met	His	Trp	Ala	Cys	Arg	Gly	Gly	His
				185					190					195
Leu	Glu	Val	Val	Lys	Leu	Leu	Gln	Ser	His	Gly	Ala	Asp	Thr	Asn
				200					205					210
Val	Arg	Asp	Lys	Leu	Leu	Ser	Thr	Pro	Leu	His	Val	Ala	Val	Arg
				215					220					225
Thr	Gly	Gln	Val	Glu	Ile	Val	Glu	His	Phe	Leu	Ser	Leu	Gly	Leu
				230					235					240
Glu	Ile	Asn	Ala	Arg	Asp	Arg	Glu	Gly	Asp	Thr	Ala	Leu	His	Asp
				245					250					255
Ala	Val	Arg	Leu	Asn	Arg	Tyr	Lys	Ile	Ile	Lys	Leu	Leu	Leu	Leu
				260					265					270
His	Gly	Ala	Asp	Met	Met	Thr	Lys	Asn	Leu	Ala	Gly	Lys	Thr	Pro
				275					280					285
Thr	Asp	Leu	Val	Gln	Leu	Trp	Gln	Ala	Asp	Thr	Arg	His	Ala	Leu
				290					295					300
Glu	His	Pro	Glu	Pro	Gly	Ala	Glu	His	Asn	Gly	Leu	Glu	Gly	Pro
				305					310					315
Asn	Asp	Ser	Gly	Arg	Glu	Thr	Pro	Gln	Pro	Val	Pro	Ala	Gln	
				320					325					